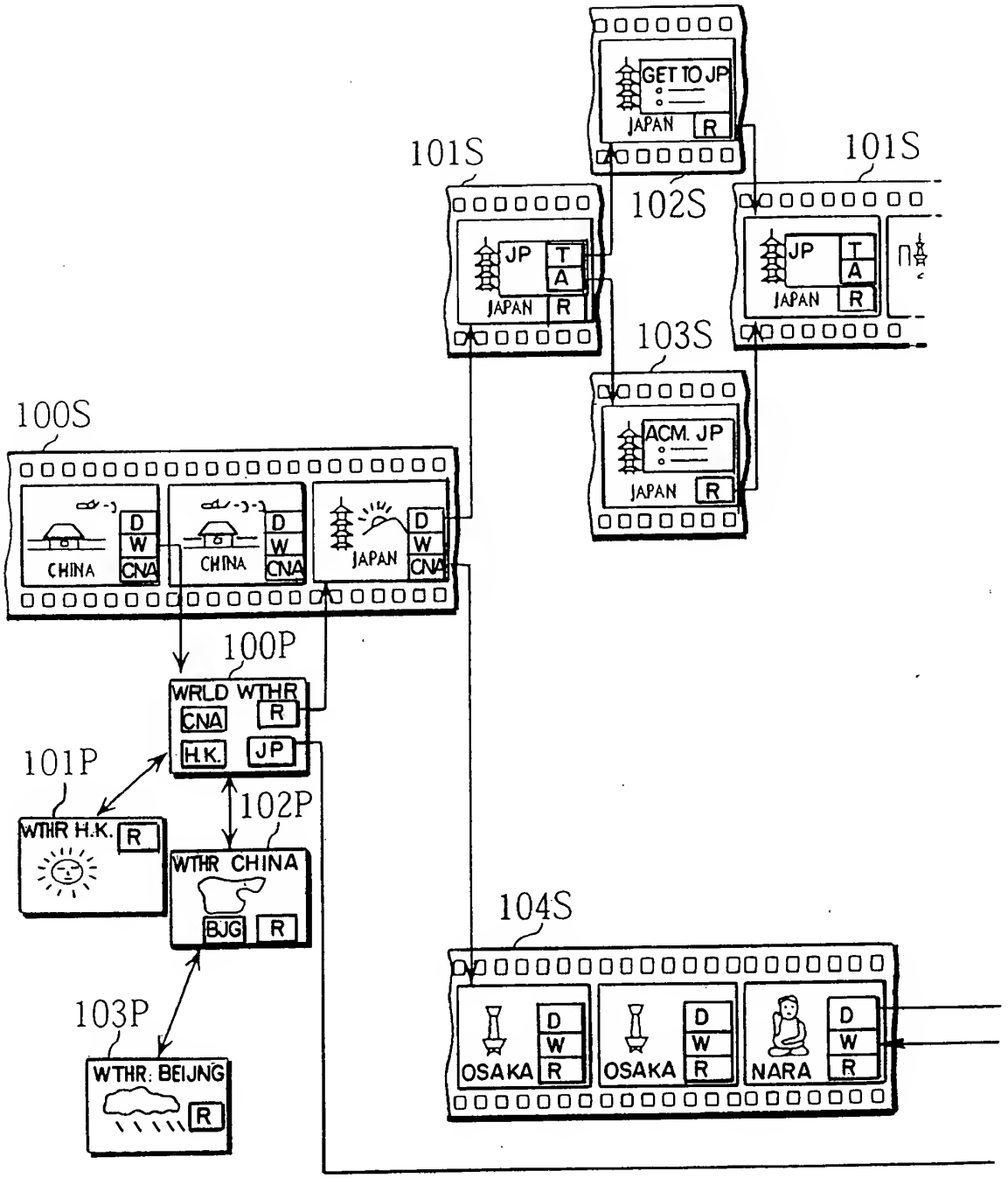

GET TO JP
JAPAN
R
101S
102S
101S
JP
T
A
JAPAN
R
103S
ACM. JP
100S
CHINA
D
W
CNA
JAPAN
100P
WRLD WTHR
CNA
H.K.
JP
101P
102P
WTHR H.K.
WTHR CHINA
BJG
103P
WTHR: BEIJNG
104S
OSAKA
NARA

FIG. 1A

FIG. 1B

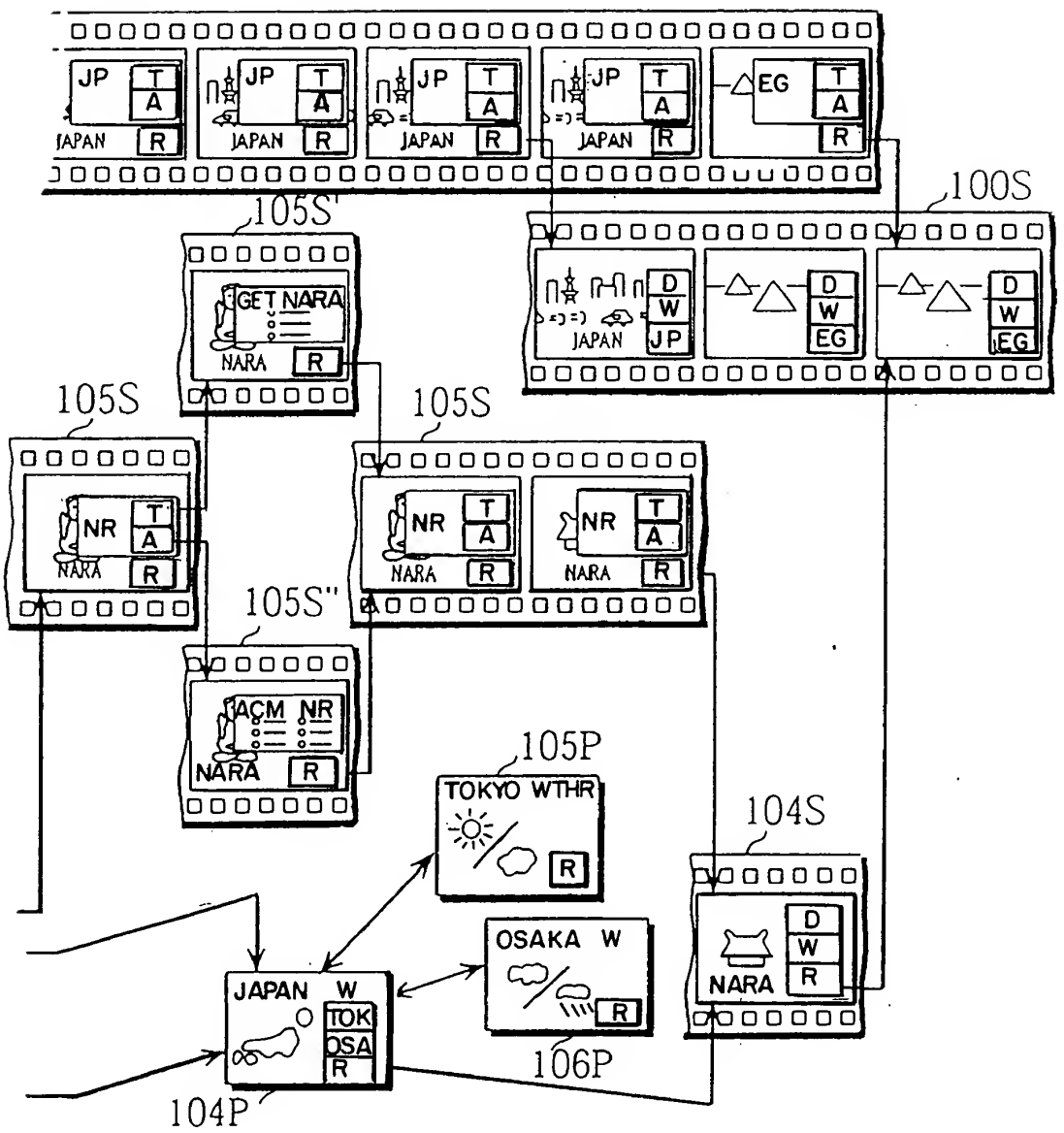

JP
T
A
JAPAN
R
EG
100S
105S'
GET NARA
NARA
D
W
JP
EG
105S
105S
NR
105S"
IACM NR
105P
TOKYO WTHR
104S
OSAKA W
JAPAN W
TOK
OSA
106P
104P

FIG. 2A

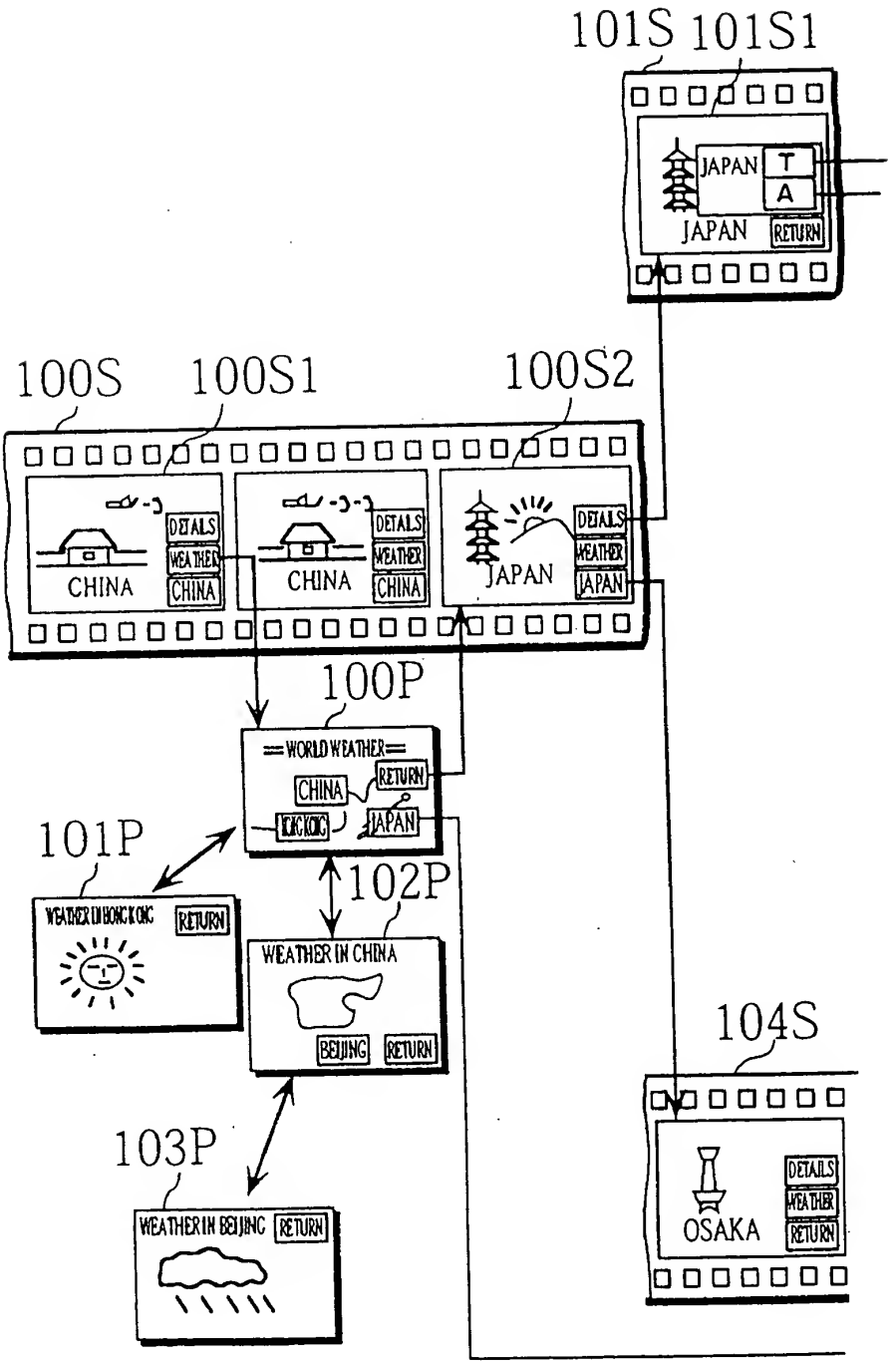

101S
101S1
JAPAN
T
A
JAPAN
RETURN
100S
100S1
100S2
CHINA
DETAILS
WEATHER
CHINA
CHINA
DETAILS
WEATHER
CHINA
JAPAN
DETAILS
WEATHER
JAPAN
100P
WORLD WEATHER
CHINA
RETURN
HONG KONG
JAPAN
101P
102P
WEATHER IN HONG KONG
RETURN
WEATHER IN CHINA
BEIJING
RETURN
104S
103P
WEATHER IN BEIJING
RETURN
OSAKA
DETAILS
WEATHER
RETURN

FIG. 2B

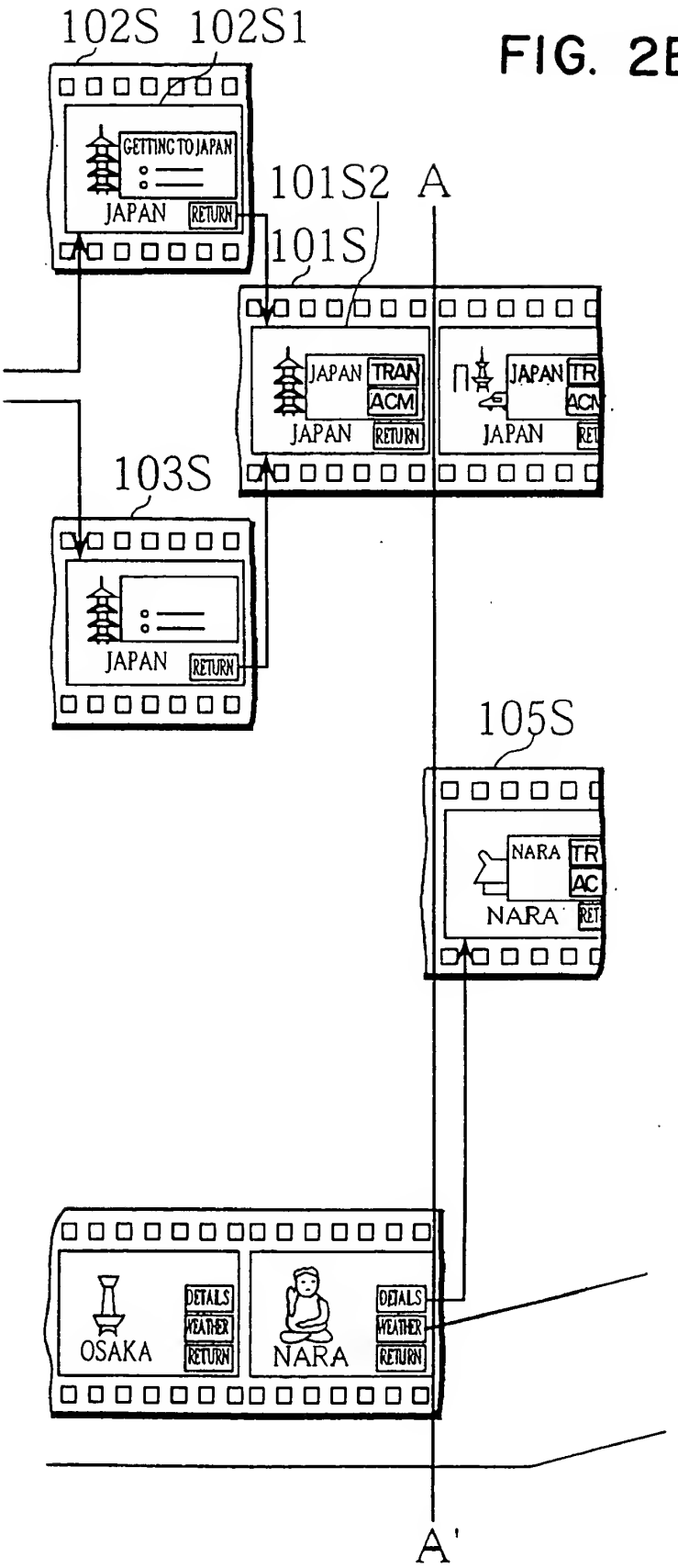

102S
102S1
GETTING TO JAPAN
JAPAN
RETURN
101S2
A
101S
JAPAN
TRAN
ACM
JAPAN
RETURN
JAPAN
TR
JAPAN
103S
JAPAN
RETURN
105S
NARA
TR
AC
NARA
OSAKA
DETAILS
WEATHER
RETURN
NARA
DETAILS
WEATHER
RETURN
A'

FIG. 3A

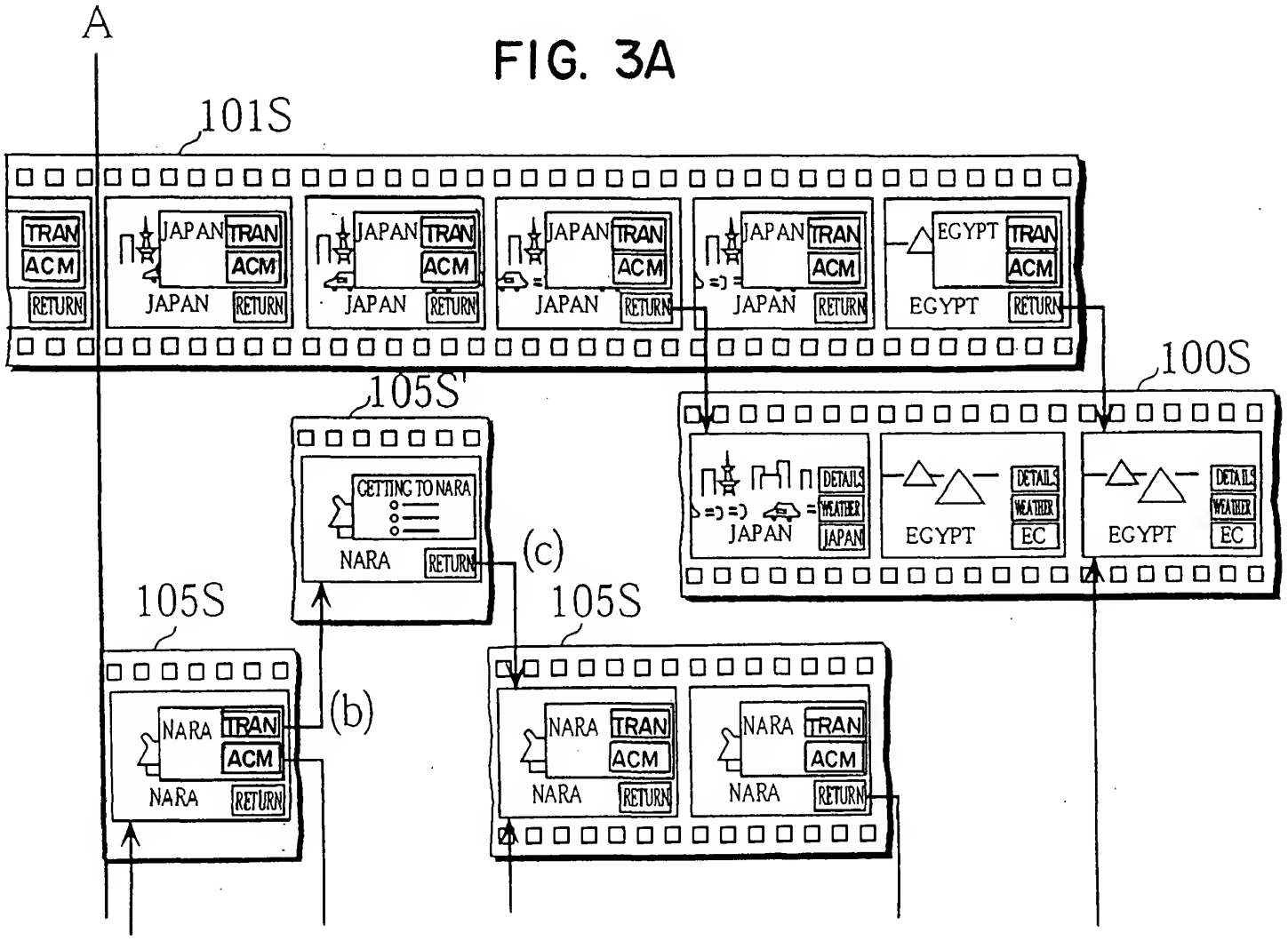

A
101S
TRAN
ACM
RETURN
JAPAN
EGYPT
100S
105S'
GETTING TO NARA
NARA
(c)
105S
105S
(b)
DETAILS
WEATHER
EC

FIG. 3B

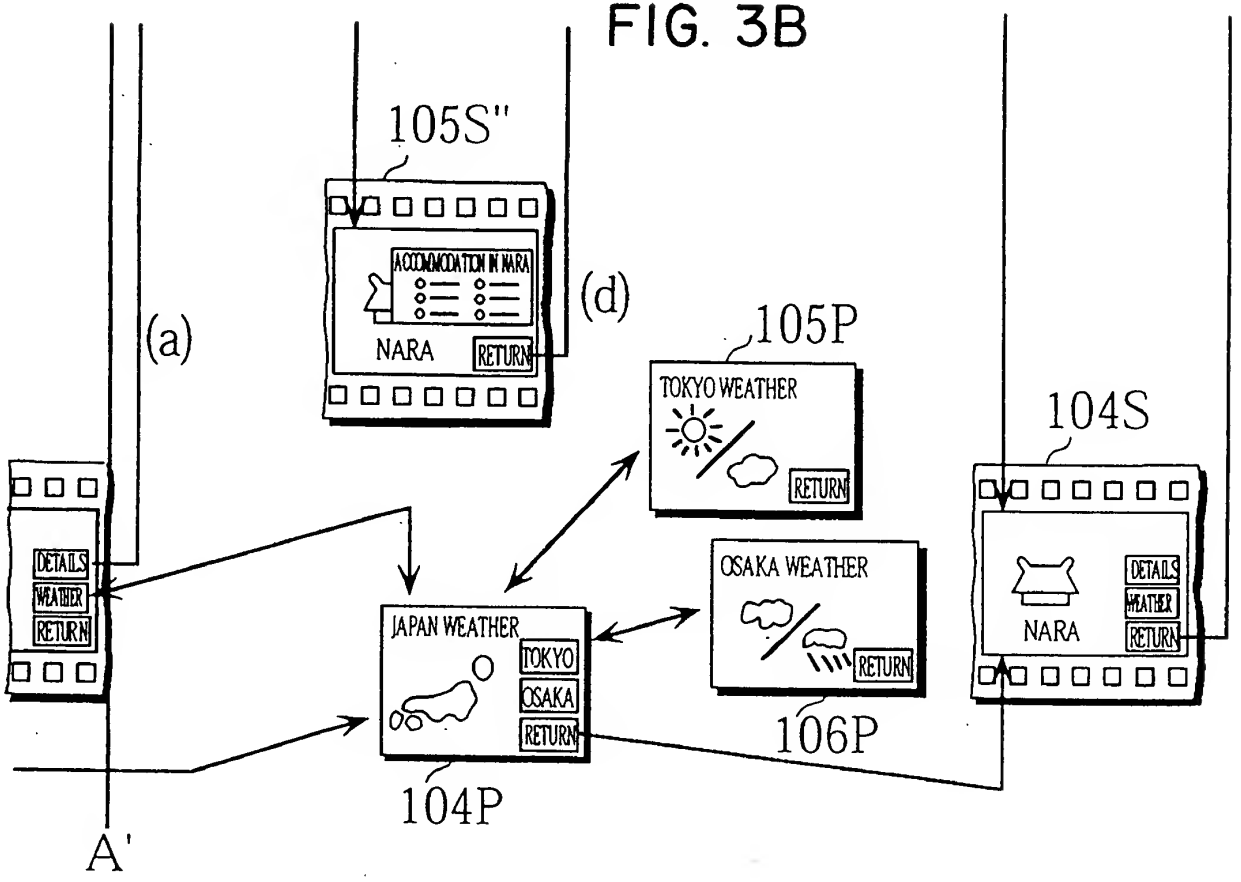

105S"
ACCOMMODATION IN NARA
NARA
RETURN
(d)
(a)
105P
TOKYO WEATHER
RETURN
104S
DETAILS
WEATHER
RETURN
OSAKA WEATHER
RETURN
NARA
DETAILS
WEATHER
RETURN
JAPAN WEATHER
TOKYO
OSAKA
RETURN
106P
104P
A'

Fig. 4

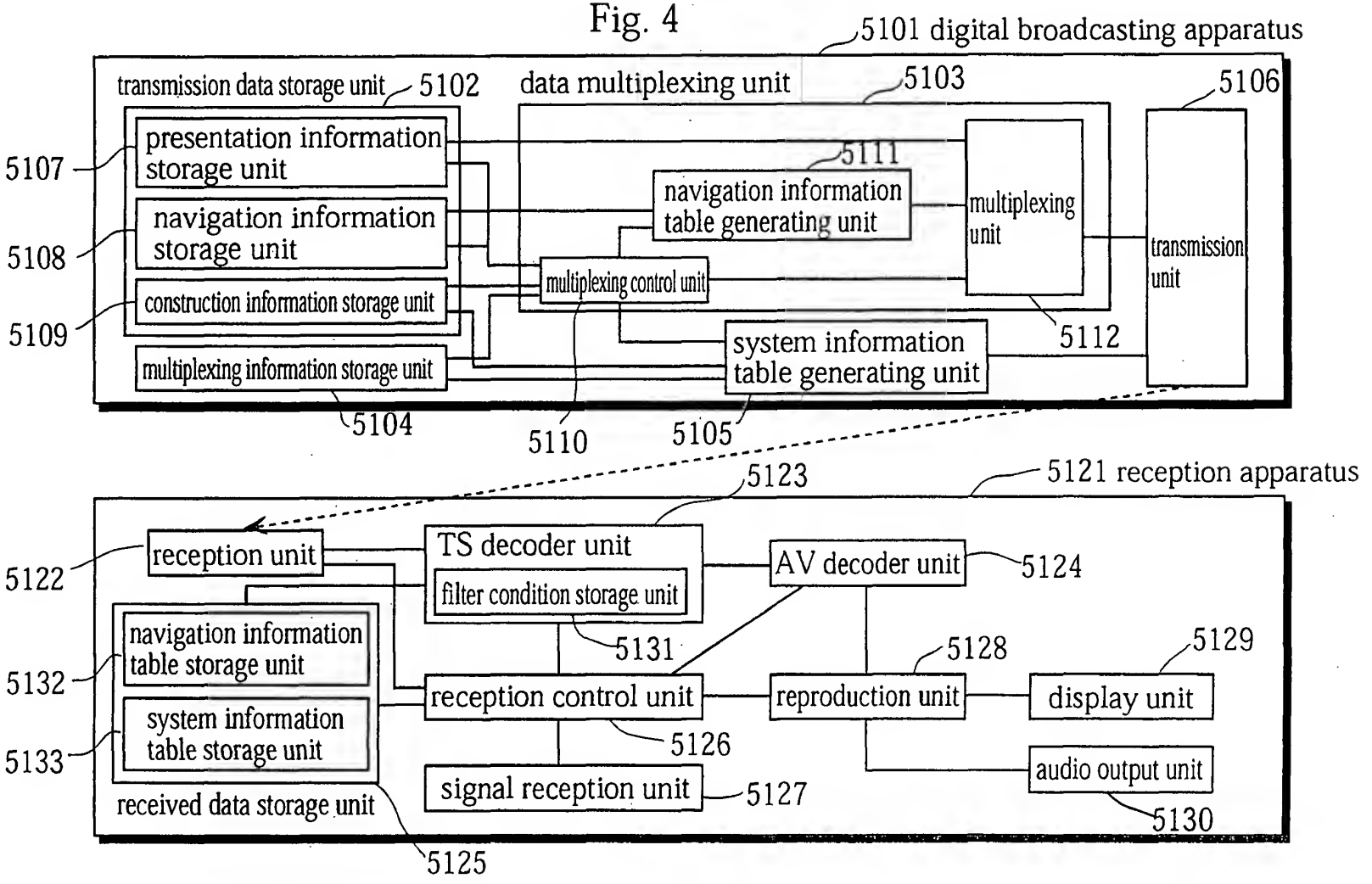
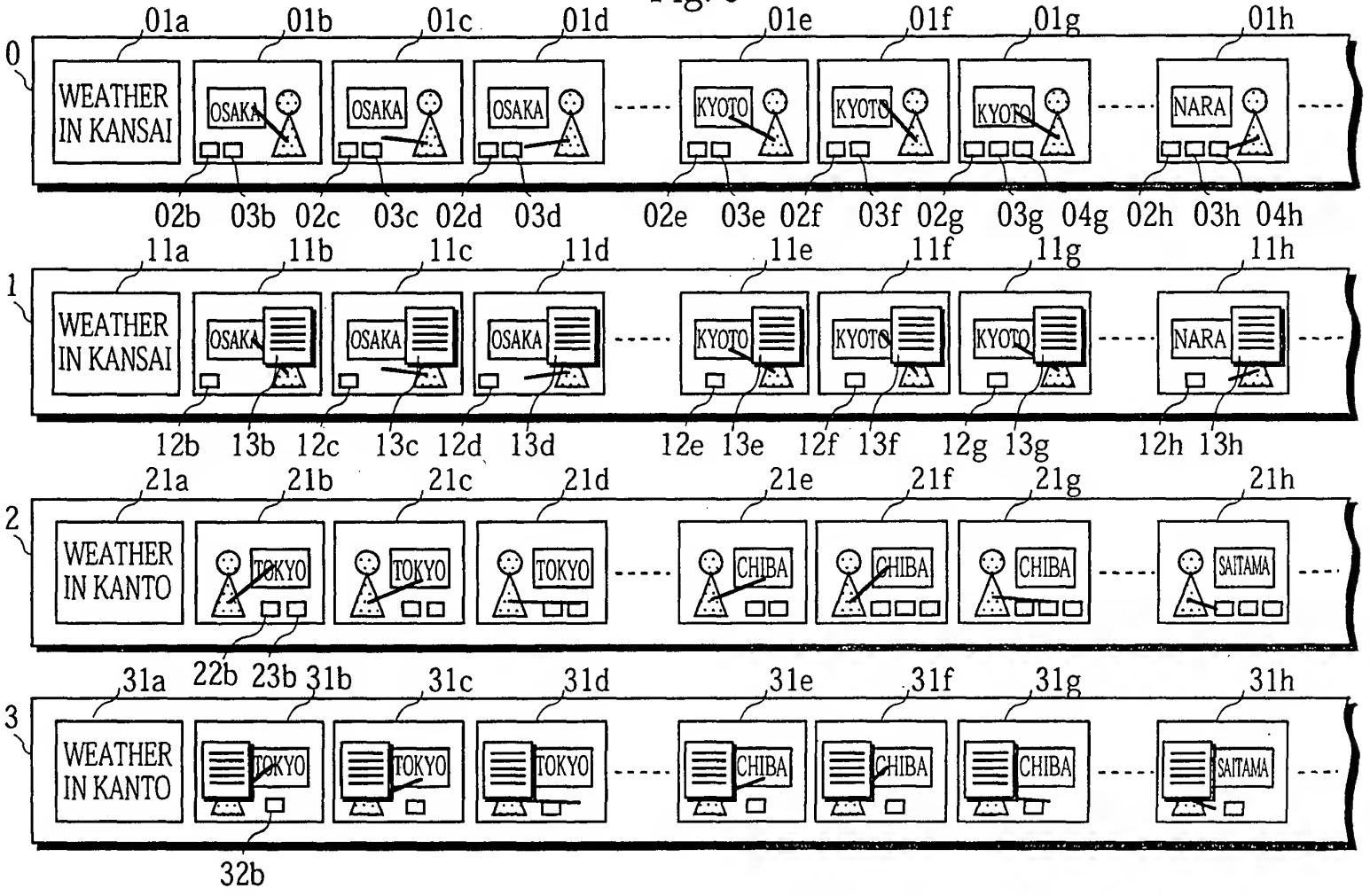

5101 digital broadcasting apparatus
transmission data storage unit
5102
data multiplexing unit
5103
5106
presentation information storage unit
5107
navigation information storage unit
5108
construction information storage unit
5109
multiplexing information storage unit
5104
5111
navigation information table generating unit
multiplexing control unit
5110
multiplexing unit
transmission unit
system information table generating unit
5105
5112
5123
5121 reception apparatus
reception unit
5122
TS decoder unit
filter condition storage unit
5131
AV decoder unit
5124
navigation information table storage unit
5132
system information table storage unit
5133
received data storage unit
5125
reception control unit
5126
signal reception unit
5127
5128
reproduction unit
5129
display unit
audio output unit
5130

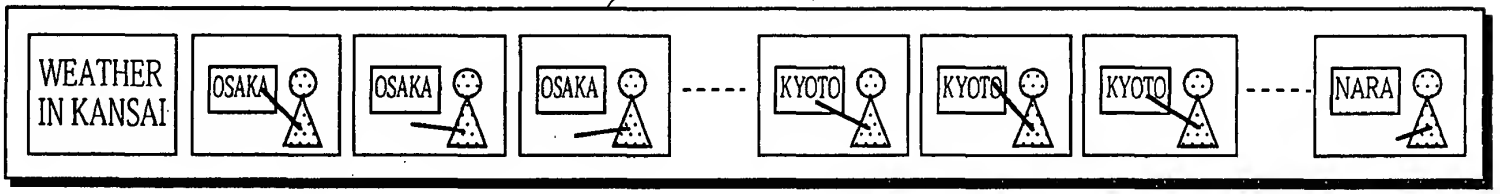
Fig. 5


0
1
2
3
WEATHER IN KANSAI
WEATHER IN KANTO
OSAKA
KYOTO
NARA
TOKYO
CHIBA
SAITAMA
01a 01b 01c 01d 01e 01f 01g 01h
02b 03b 02c 03c 02d 03d 02e 03e 02f 03f 02g 03g 04g 02h 03h 04h
11a 11b 11c 11d 11e 11f 11g 11h
12b 13b 12c 13c 12d 13d 12e 13e 12f 13f 12g 13g 12h 13h
21a 21b 21c 21d 21e 21f 21g 21h
22b 23b
31a 31b 31c 31d 31e 31f 31g 31h
32b

Video0.m2v

5201

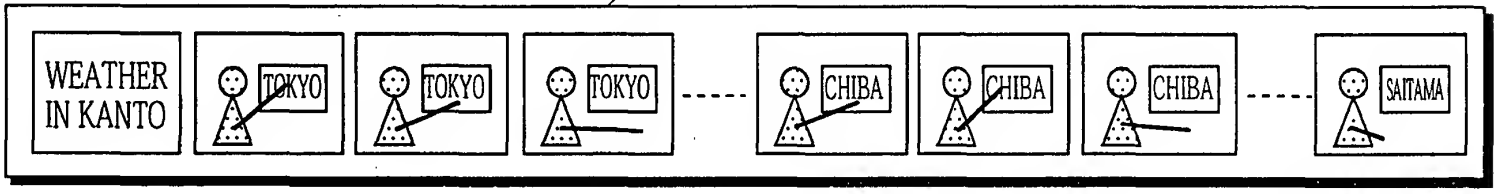
Fig. 6A



Video1.m2v

5202

Fig. 6B



Audio0.m2a

5203

Fig. 6C

SOUNDTRACK FOR WEATHER FORECAST FOR KANSAI REGION

Audio1.m2a

5204

Fig. 6D

SOUNDTRACK FOR WEATHER FORECAST FOR KANTO REGION

Fig. 7

Navi0-0.nif

5301

Object Definition Table :

5302

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Button	200	400	1	2	3

Handler Definition Table :

5303

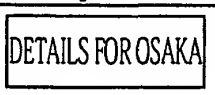
Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)

Hyperlink Table :

5304

Hyperlink Index	Content number
0	1
1	2

Bitmap Table :

Bitmap Index	Bitmap Data
0	
1	
2	
3	

5305

Time Information Table :

5306

start_time	5
end_time	65

Fig. 8

Navi1-0.nif

5401

Object Definition Table :

5402

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Picture	300	20	–	2	–

Handler Definition Table :

5403

Handler Index	Script
0	goto_entry

Bitmap Table :

5404

Bitmap Index	Bitmap Data
0	MENU
1	MENU
2	WEATHER IN OSAKA MAX.TEMPERATURE 10℃ MIN.TEMPERATURE 3℃ HUMIDITY 60% PROBABILITY OF RAIN TODAY 10% TOMORROW 20% DAY AFTER TOMORROW 30%

Time Information Table :

5405

start_time	5
end_time	65

Fig. 9

Navi0-1.nif 5501

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Button	200	400	1	2	3

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)

Hyperlink Table :

Hyperlink Index	Content number
0	1
1	2

Bitmap Table :

Bitmap Index	Bitmap Data
0	
1	
2	
3	

Time Information Table :

start_time	70
end_time	130

Fig. 10

Navi1-1.nif 5601

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Picture	300	20	–	2	–

Handler Definition Table :

Handler Index	Script
0	goto_entry

Bitmap Table :

Bitmap Index	Bitmap Data
0	MENU
1	MENU
2	WEATHER IN KYOTO MAX.TEMPERATURE 8℃ MIN.TEMPERATURE 0℃ HUMIDITY 80% PROBABILITY OF RAIN TODAY 20% TOMORROW 15% DAY AFTER TOMORROW 0%

Time Information Table :

start_time	70
end_time	130

Fig. 11

Navi2-0.nif 5701

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Button	200	400	1	2	3

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_entry

Hyperlink Table :

Hyperlink Index	Content number
0	3

Bitmap Table :

Bitmap Index	Bitmap Data
0	DETAILS FOR TOKYO
1	DETAILS FOR TOKYO
2	GO TO KANSAI
3	GO TO KANSAI

Time Information Table :

start_time	5
end_time	65

Fig. 12

CONSTRUCTION INFORMATION TABLE 5801

CONTENT NUMBER	VIDEO DATA	AUDIO DATA	NAVIGATION INFORMATION
0	Video0.m2v	Audio0.m2a	(Navi0-0.nif,Navi0-1.nif,Navi0-2.nif,Navi0-3.nif,Navi0-4.nif)
1	Video0.m2v	Audio0.m2a	(Navi1-0.nif,Navi1-1.nif,Navi1-2.nif,Navi1-3.nif,Navi1-4.nif)
2	Video1.m2v	Audio1.m2a	(Navi2-0.nif,Navi2-1.nif,Navi2-2.nif,Navi2-3.nif,Navi2-4.nif)
3	Video1.m2v	Audio1.m2a	(Navi3-0.nif,Navi3-1.nif,Navi3-2.nif,Navi3-3.nif,Navi3-4.nif)

Fig. 13

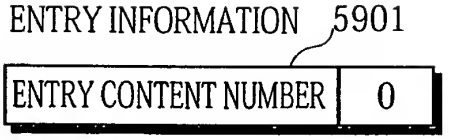


Fig. 14

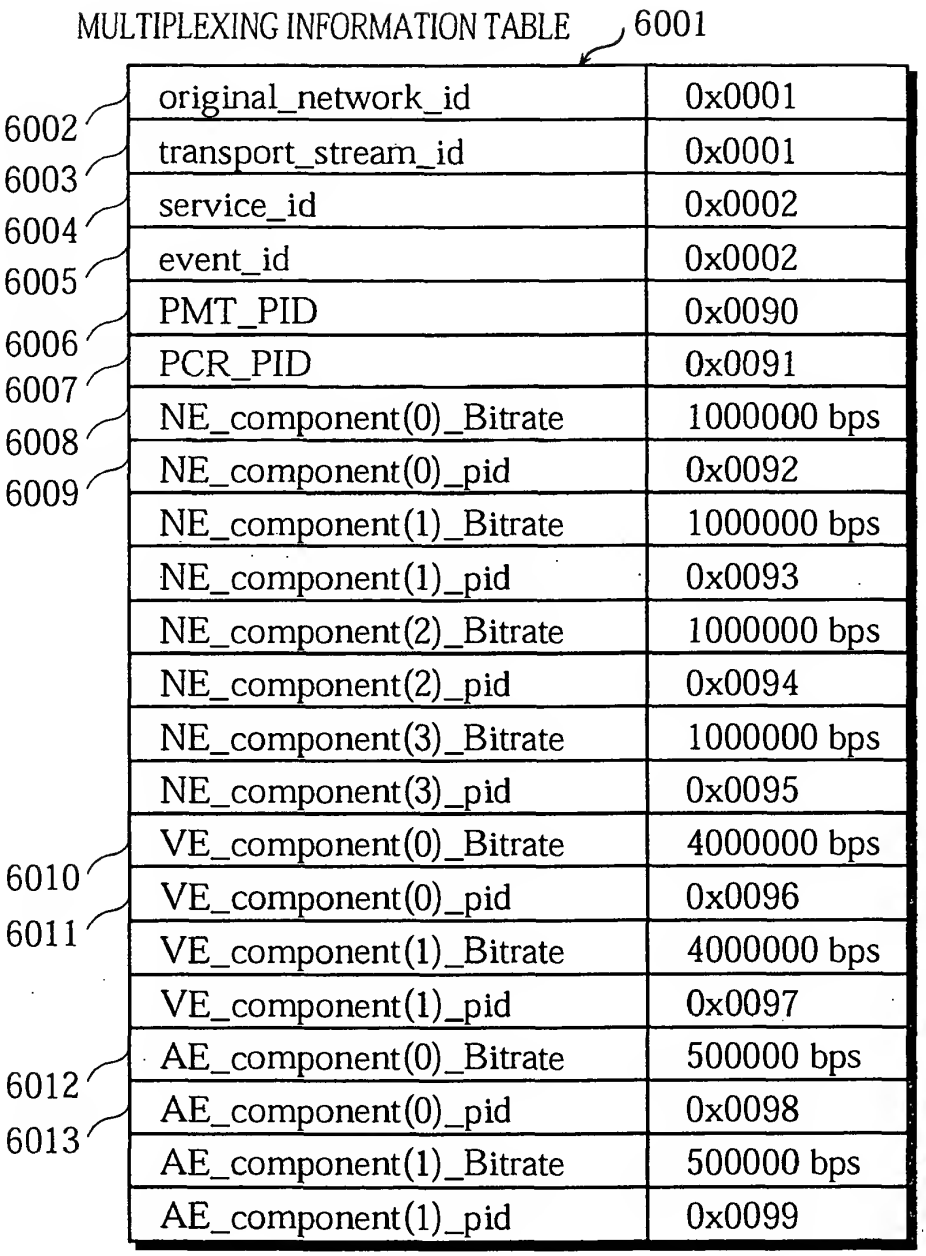

MULTIPLEXING INFORMATION TABLE
6001
6002
6003
6004
6005
6006
6007
6008
6009
6010
6011
6012
6013
original_network_id
0x0001
transport_stream_id
0x0001
service_id
0x0002
event_id
0x0002
PMT_PID
0x0090
PCR_PID
0x0091
NE_component(0)_Bitrate
1000000 bps
NE_component(0)_pid
0x0092
NE_component(1)_Bitrate
1000000 bps
NE_component(1)_pid
0x0093
NE_component(2)_Bitrate
1000000 bps
NE_component(2)_pid
0x0094
NE_component(3)_Bitrate
1000000 bps
NE_component(3)_pid
0x0095
VE_component(0)_Bitrate
4000000 bps
VE_component(0)_pid
0x0096
VE_component(1)_Bitrate
4000000 bps
VE_component(1)_pid
0x0097
AE_component(0)_Bitrate
500000 bps
AE_component(0)_pid
0x0098
AE_component(1)_Bitrate
500000 bps
AE_component(1)_pid
0x0099

Fig. 15

CONTENT IDENTIFIER ASSIGNING TABLE 6101

CONTENT NUMBER (6102)	orig_nw_id (6103)	ts_id (6104)	VE_svc_id (6105)	VE_event_id (6106)	VE_comp_tag (6107)	VE_id	AE_svc_id (6108)	AE_event_id (6109)	AE_comp_tag (6110)	AE_id	NE_svc_id (6111)	NE_event_id (6112)	NE_id (6113)
0	0x0001	0x0001	0x0002	0x0002	0x00	–	0x0002	0x0002	0x00	–	0x0002	0x0002	0x0000
1	0x0001	0x0001	0x0002	0x0002	0x00	–	0x0002	0x0002	0x00	–	0x0002	0x0002	0x0001
2	0x0001	0x0001	0x0002	0x0002	0x01	–	0x0002	0x0002	0x01	–	0x0002	0x0002	0x0002
3	0x0001	0x0001	0x0002	0x0002	0x01	–	0x0002	0x0002	0x01	–	0x0002	0x0002	0x0003

Fig. 16

VERSION NUMBER ASSIGNING TABLE

6201

NAVIGATION INFORMATION	VERSION NUMBER
Navi0-0.nif	0x00
Navi0-1.nif	0x01
Navi0-2.nif	0x02
:	:
:	:
Navi1-0.nif	0x00
Navi1-1.nif	0x01
:	:
:	:
Navi2-0.nif	0x00
Navi2-1.nif	0x01
:	:
:	:

Fig. 17

NVT(0, 0)

6301

Object Definition Table :

6302

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Button	200	400	1	2	3

Handler Definition Table :

6303

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)

Hyperlink Table :

6304

Hyperlink Index	orig_nw_id	ts_id	VE_service_id	VE_event_id	VE_comp_tag	VE_id	AE_service_id	AE_event_id	AE_comp_tag	AE_id	NE_service_id	NE_event_id	NE_id
0	—	—	—	—	—	—	—	—	—	—	—	—	0x0001
1	—	—	—	—	0x01	—	—	—	0x01	—	—	—	0x0002

Bitmap Table :

6305

Bitmap Index	Bitmap Data
0	DETAILS FOR OSAKA
1	DETAILS FOR OSAKA
2	GO TO KANTO
3	GO TO KANTO

Time Information Table :

6306

start_time	5
end_time	65

Fig. 18

NVT(1,0)

6401

Object Definition Table : 6402

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Picture	300	20	–	2	–

Handler Definition Table : 6403

Handler Index	Script
0	goto_entry

Bitmap Table : 6404

Bitmap Index	Bitmap Data
0	MENU
1	MENU
2	WEATHER IN OSAKA MAX.TEMPERATURE 10℃ MIN.TEMPERATURE 3℃ HUMIDITY 60% PROBABILITY OF RAIN TODAY 10% TOMORROW 20% DAY AFTER TOMORROW 30%

Time Information Table : 6405

start_time	5
end_time	65

Fig. 19

NVT(0, 1) 6501

Object Definition Table : 6502

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Button	200	400	1	2	3

Handler Definition Table : 6503

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)

Hyperlink Table : 6504

Hyperlink Index	orig_nw_id	ts_id	VE_service_id	VE_event_id	VE_comp_tag	VE_id	AE_service_id	AE_event_id	AE_comp_tag	AE_id	NE_service_id	NE_event_id	NE_id
0	—	—	—	—	—	—	—	—	—	—	—	—	0x0001
1	—	—	—	—	0x01	—	—	—	0x01	—	—	—	0x0002

Bitmap Table : 6505

Bitmap Index	Bitmap Data
0	DETAILS FOR KYOTO
1	DETAILS FOR KYOTO
2	GO TO KANTO
3	GO TO KANTO

Time Information Table : 6506

start_time	70
end_time	130

Fig. 20

NVT(1,1) 6601

Object Definition Table : 6602

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Picture	300	20	–	2	–

Handler Definition Table : 6603

Handler Index	Script
0	goto_entry

Bitmap Table : 6604

Bitmap Index	Bitmap Data
0	MENU
1	MENU
2	WEATHER IN KYOTO MAX.TEMPERATURE 8℃ MIN.TEMPERATURE 0℃ HUMIDITY 80% PROBABILITY OF RAIN TODAY 20% TOMORROW 15% DAY AFTER TOMORROW 0%

Time Information Table : 6605

start_time	70
end_time	130

Fig. 21

NVT(2, 0) 6701

Object Definition Table : 6702

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	20	400	0	0	1
1	Button	200	400	1	2	3

Handler Definition Table : 6703

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_entry

Hyperlink Table : 6704

Hyperlink Index	orig_nw_id	ts_id	VE_service_id	VE_event_id	VE_comp_tag	VE_id	AE_service_id	AE_event_id	AE_comp_tag	AE_id	NE_service_id	NE_event_id	NE_id
0	—	—	—	—	—	—	—	—	—	—	—	—	0x0003

Bitmap Table : 6705

Bitmap Index	Bitmap Data
0	DETAILS FOR TOKYO
1	DETAILS FOR TOKYO
2	GO TO KANSAI
3	GO TO KANSAI

Time Information Table : 6706

start_time	5
end_time	65

Fig. 22A

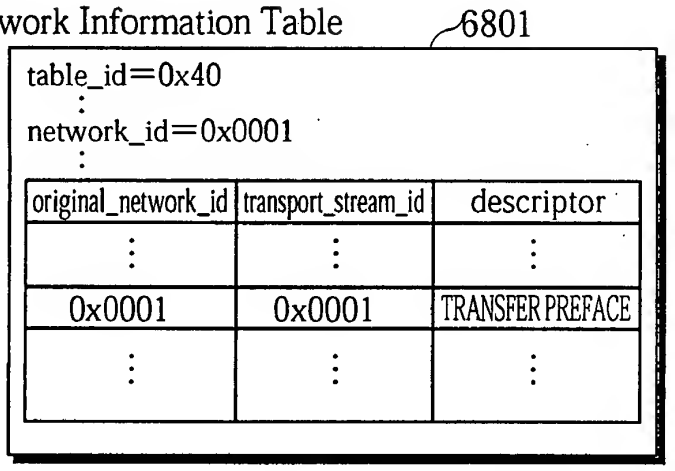


Fig. 22C

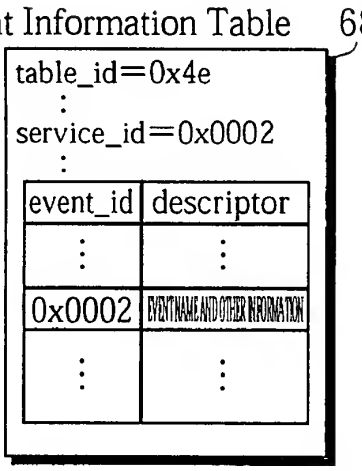


Fig. 22B

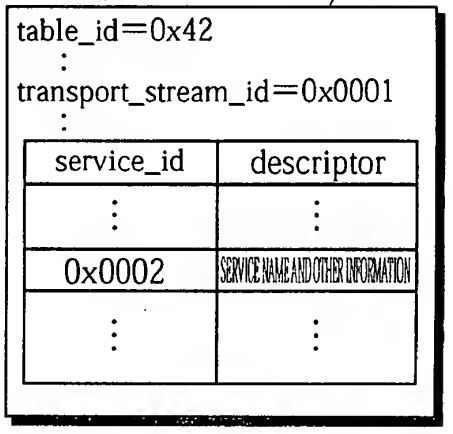


Fig. 23

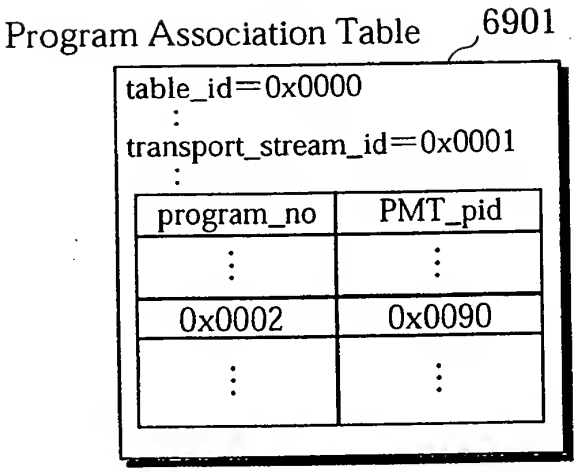

Program Association Table
6901
table_id=0x0000
transport_stream_id=0x0001
program_no
PMT_pid
0x0002
0x0090

Fig. 24

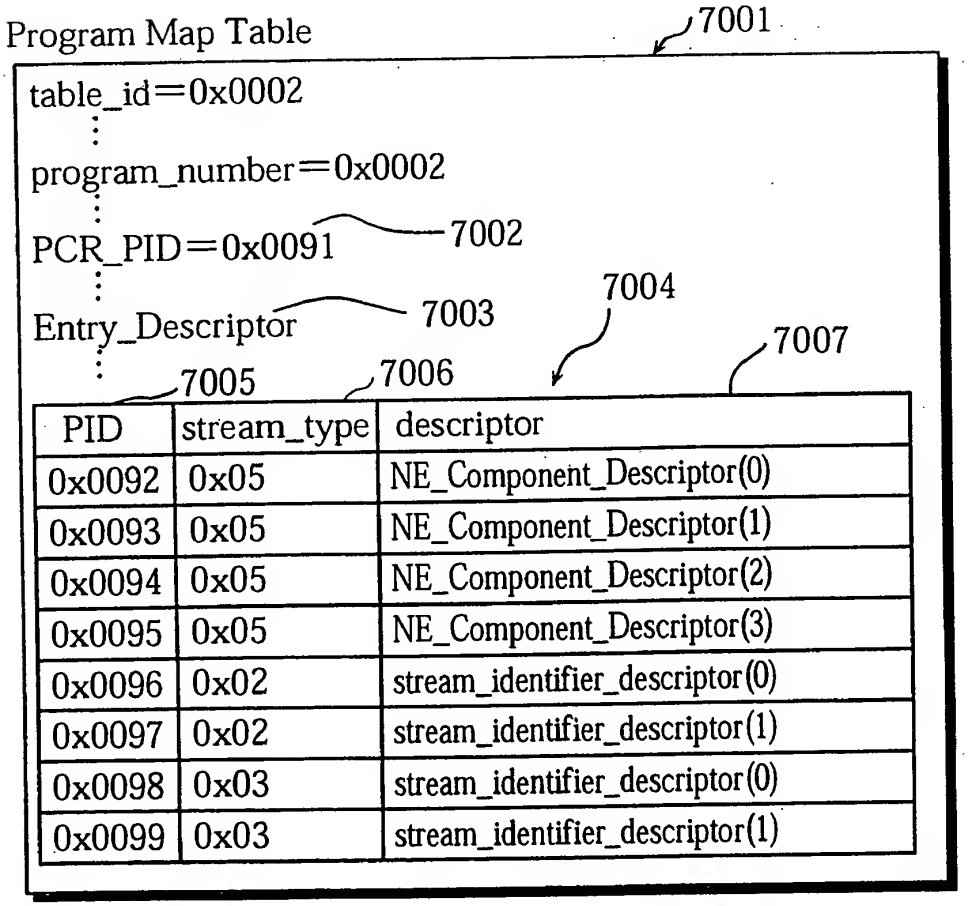

Program Map Table
7001
table_id=0x0002
program_number=0x0002
PCR_PID=0x0091
7002
Entry_Descriptor
7003
7004
7005
7006
7007
PID
stream_type
descriptor
0x0092
0x05
NE_Component_Descriptor(0)
0x0093
0x05
NE_Component_Descriptor(1)
0x0094
0x05
NE_Component_Descriptor(2)
0x0095
0x05
NE_Component_Descriptor(3)
0x0096
0x02
stream_identifier_descriptor(0)
0x0097
0x02
stream_identifier_descriptor(1)
0x0098
0x03
stream_identifier_descriptor(0)
0x0099
0x03
stream_identifier_descriptor(1)

Fig. 25

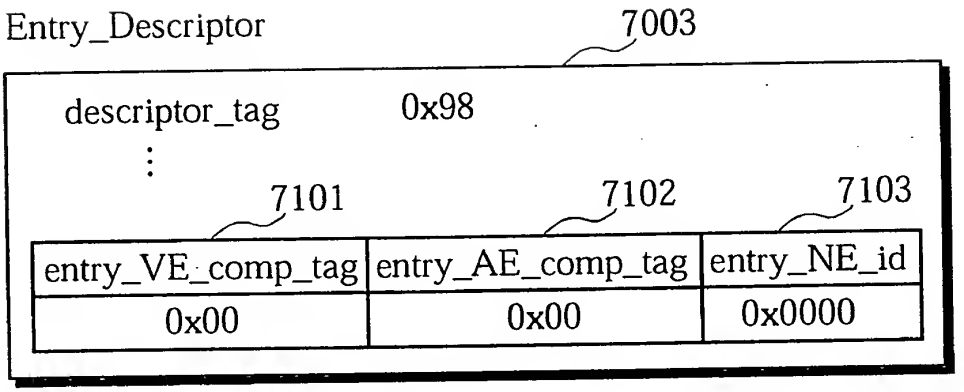

Entry_Descriptor
7003
descriptor_tag
0x98
7101
7102
7103
entry_VE_comp_tag
entry_AE_comp_tag
entry_NE_id
0x00
0x00
0x0000

Fig. 26A

NE_Component_Descriptor(0) 7201

descriptor_tag	0x99
:	
min_NE_id	0x0000
max_NE_id	0x0000

Fig. 26B

NE_Component_Descriptor(1) 7202

descriptor_tag	0x99
:	
min_NE_id	0x0001
max_NE_id	0x0001

Fig. 26C

NE_Component_Descriptor(2) 7203

descriptor_tag	0x99
:	
min_NE_id	0x0002
max_NE_id	0x0002

Fig. 26D

NE_Component_Descriptor(3) 7204

descriptor_tag	0x99
:	
min_NE_id	0x0003
max_NE_id	0x0003

Fig. 27A

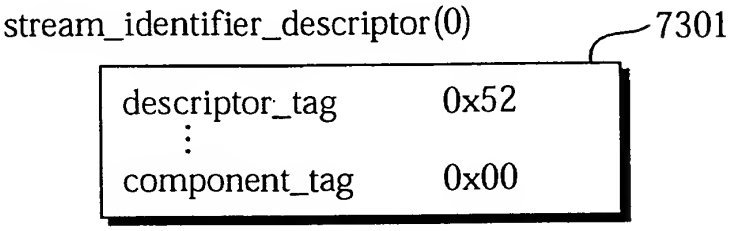


Fig. 27B

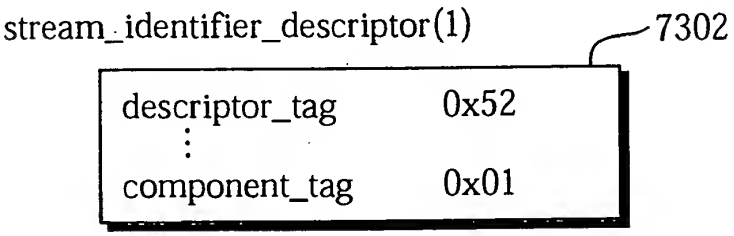


FIG. 28A

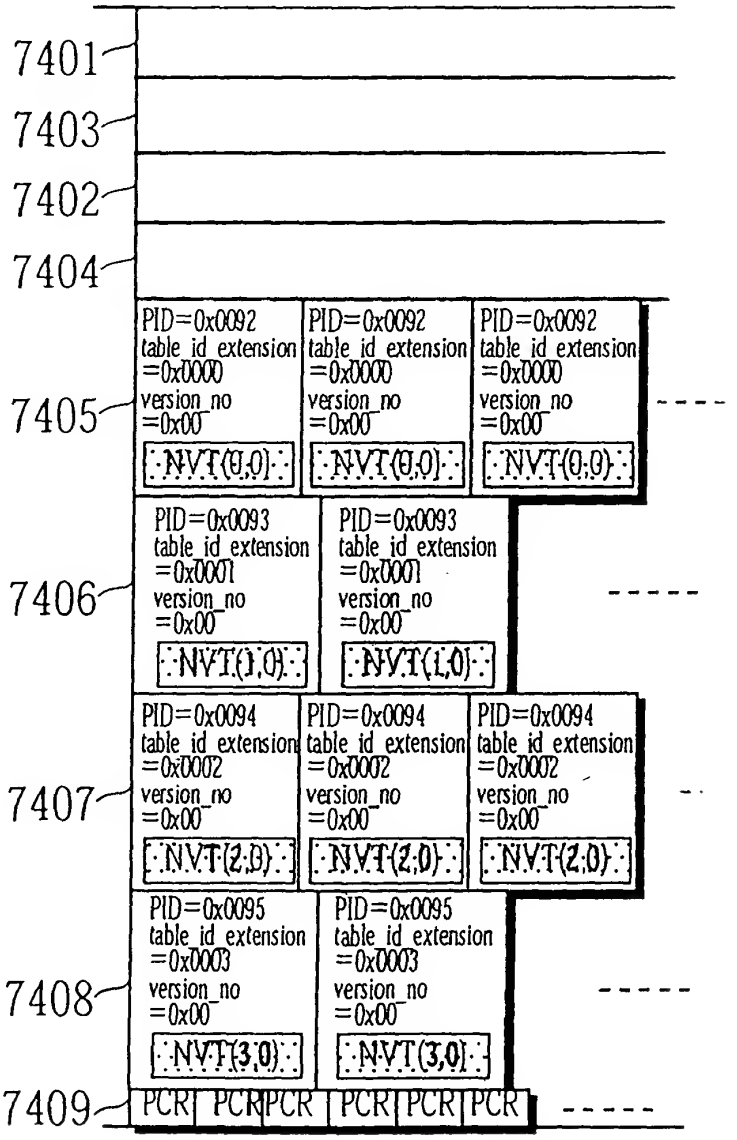

7401
7403
7402
7404
7405
PID=0x0092
table_id_extension
=0x0000
version_no
=0x00
NVT(0,0)
PID=0x0092
table_id_extension
=0x0000
version_no
=0x00
NVT(0,0)
PID=0x0092
table_id_extension
=0x0000
version_no
=0x00
NVT(0,0)
7406
PID=0x0093
table_id_extension
=0x0001
version_no
=0x00
NVT(1,0)
PID=0x0093
table_id_extension
=0x0001
version_no
=0x00
NVT(1,0)
7407
PID=0x0094
table_id_extension
=0x0002
version_no
=0x00
NVT(2,0)
PID=0x0094
table_id_extension
=0x0002
version_no
=0x00
NVT(2,0)
PID=0x0094
table_id_extension
=0x0002
version_no
=0x00
NVT(2,0)
7408
PID=0x0095
table_id_extension
=0x0003
version_no
=0x00
NVT(3,0)
PID=0x0095
table_id_extension
=0x0003
version_no
=0x00
NVT(3,0)
7409
PCR
PCR
PCR
PCR
PCR
PCR

Fig. 28B

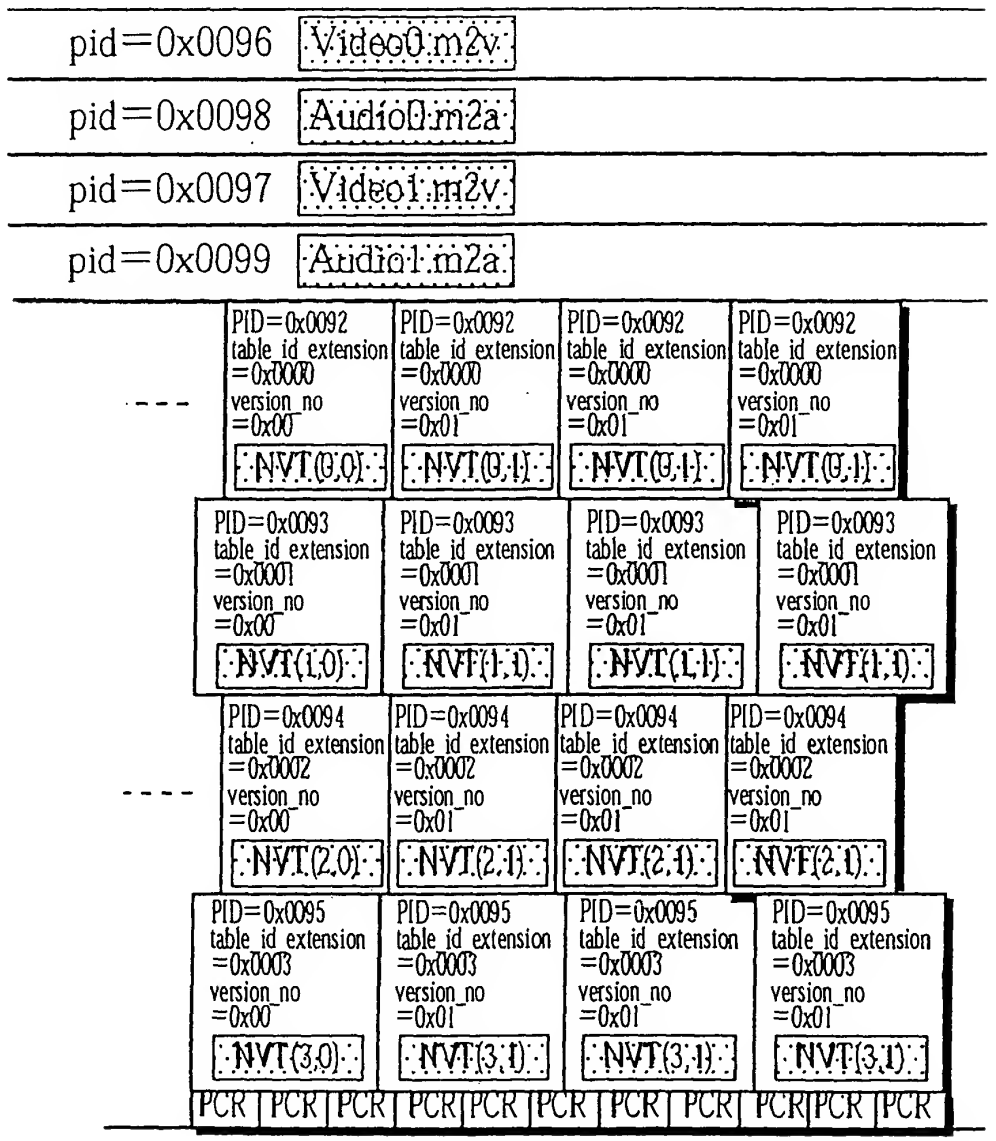

pid=0x0096
Video0.m2v
pid=0x0098
Audio0.m2a
pid=0x0097
Video1.m2v
pid=0x0099
Audio1.m2a
PID=0x0092 table_id_extension =0x0000 version_no =0x00
NVT(0,0)
PID=0x0092 table_id_extension =0x0000 version_no =0x01
NVT(0,1)
PID=0x0092 table_id_extension =0x0000 version_no =0x01
NVT(0,1)
PID=0x0092 table_id_extension =0x0000 version_no =0x01
NVT(0,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x00
NVT(1,0)
PID=0x0093 table_id_extension =0x0001 version_no =0x01
NVT(1,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x01
NVT(1,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x01
NVT(1,1)
PID=0x0094 table_id_extension =0x0002 version_no =0x00
NVT(2,0)
PID=0x0094 table_id_extension =0x0002 version_no =0x01
NVT(2,1)
PID=0x0094 table_id_extension =0x0002 version_no =0x01
NVT(2,1)
PID=0x0094 table_id_extension =0x0002 version_no =0x01
NVT(2,1)
PID=0x0095 table_id_extension =0x0003 version_no =0x00
NVT(3,0)
PID=0x0095 table_id_extension =0x0003 version_no =0x01
NVT(3,1)
PID=0x0095 table_id_extension =0x0003 version_no =0x01
NVT(3,1)
PID=0x0095 table_id_extension =0x0003 version_no =0x01
NVT(3,1)
PCR PCR PCR PCR PCR PCR PCR PCR PCR PCR PCR

FIG. 28C

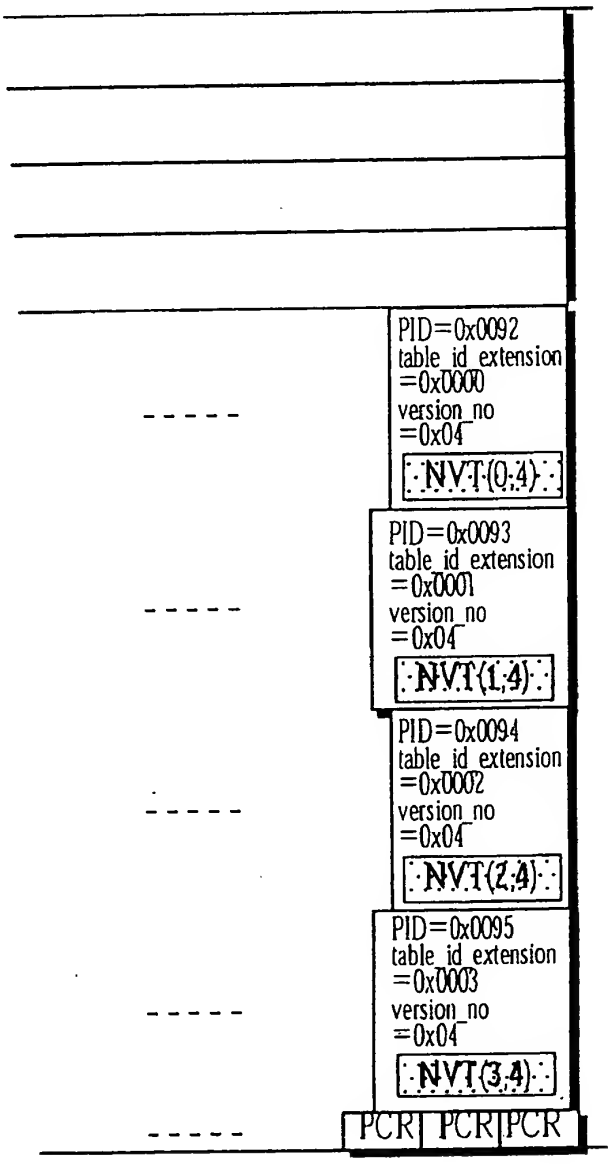

PID=0x0092
table_id_extension
=0x0000
version_no
=0x04
NVT(0,4)
PID=0x0093
table_id_extension
=0x0001
version_no
=0x04
NVT(1,4)
PID=0x0094
table_id_extension
=0x0002
version_no
=0x04
NVT(2,4)
PID=0x0095
table_id_extension
=0x0003
version_no
=0x04
NVT(3,4)
PCR
PCR
PCR

FIG. 29a

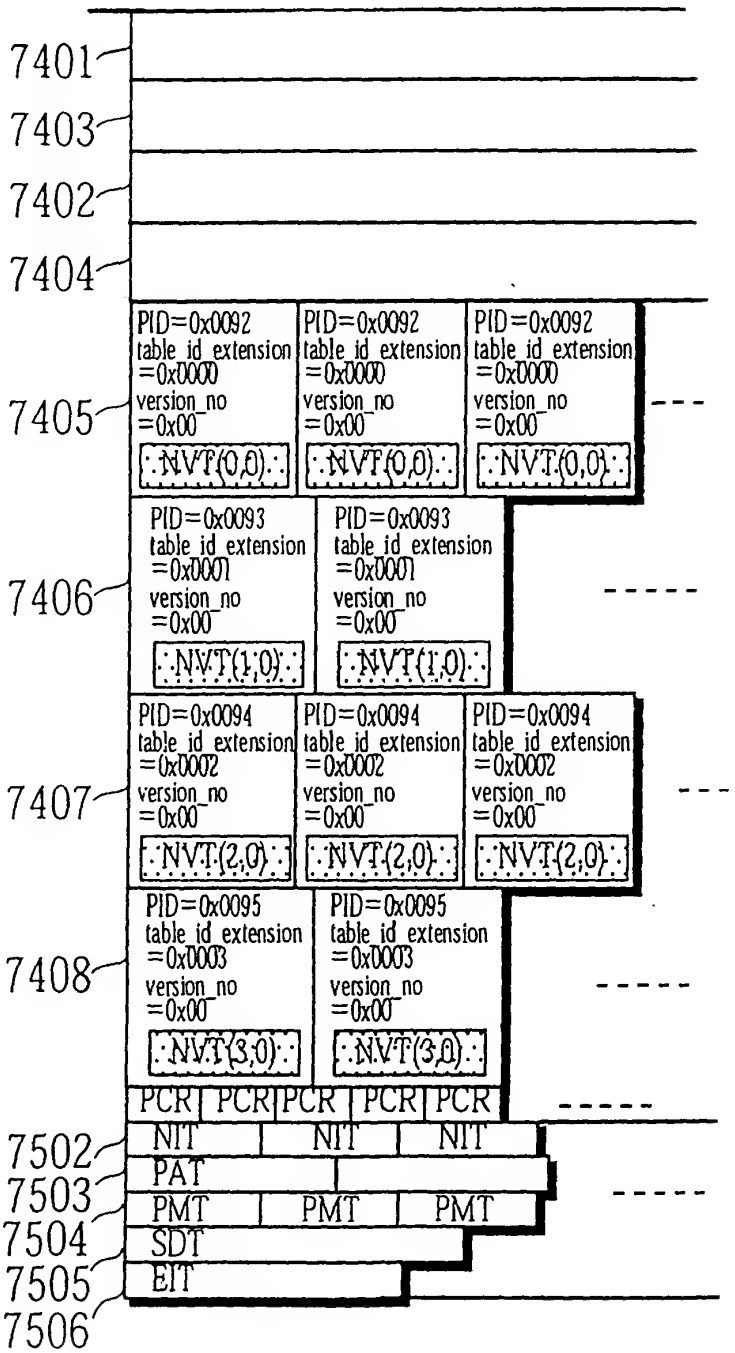

7401
7403
7402
7404
7405
PID=0x0092 table_id_extension =0x0000 version_no =0x00 NVT(0,0)
PID=0x0092 table_id_extension =0x0000 version_no =0x00 NVT(0,0)
PID=0x0092 table_id_extension =0x0000 version_no =0x00 NVT(0,0)
7406
PID=0x0093 table_id_extension =0x0001 version_no =0x00 NVT(1,0)
PID=0x0093 table_id_extension =0x0001 version_no =0x00 NVT(1,0)
7407
PID=0x0094 table_id_extension =0x0002 version_no =0x00 NVT(2,0)
PID=0x0094 table_id_extension =0x0002 version_no =0x00 NVT(2,0)
PID=0x0094 table_id_extension =0x0002 version_no =0x00 NVT(2,0)
7408
PID=0x0095 table_id_extension =0x0003 version_no =0x00 NVT(3,0)
PID=0x0095 table_id_extension =0x0003 version_no =0x00 NVT(3,0)
PCR PCR PCR PCR PCR
7502 NIT NIT NIT
7503 PAT
PMT PMT PMT
7504 SDT
7505 EIT
7506

Fig. 29b

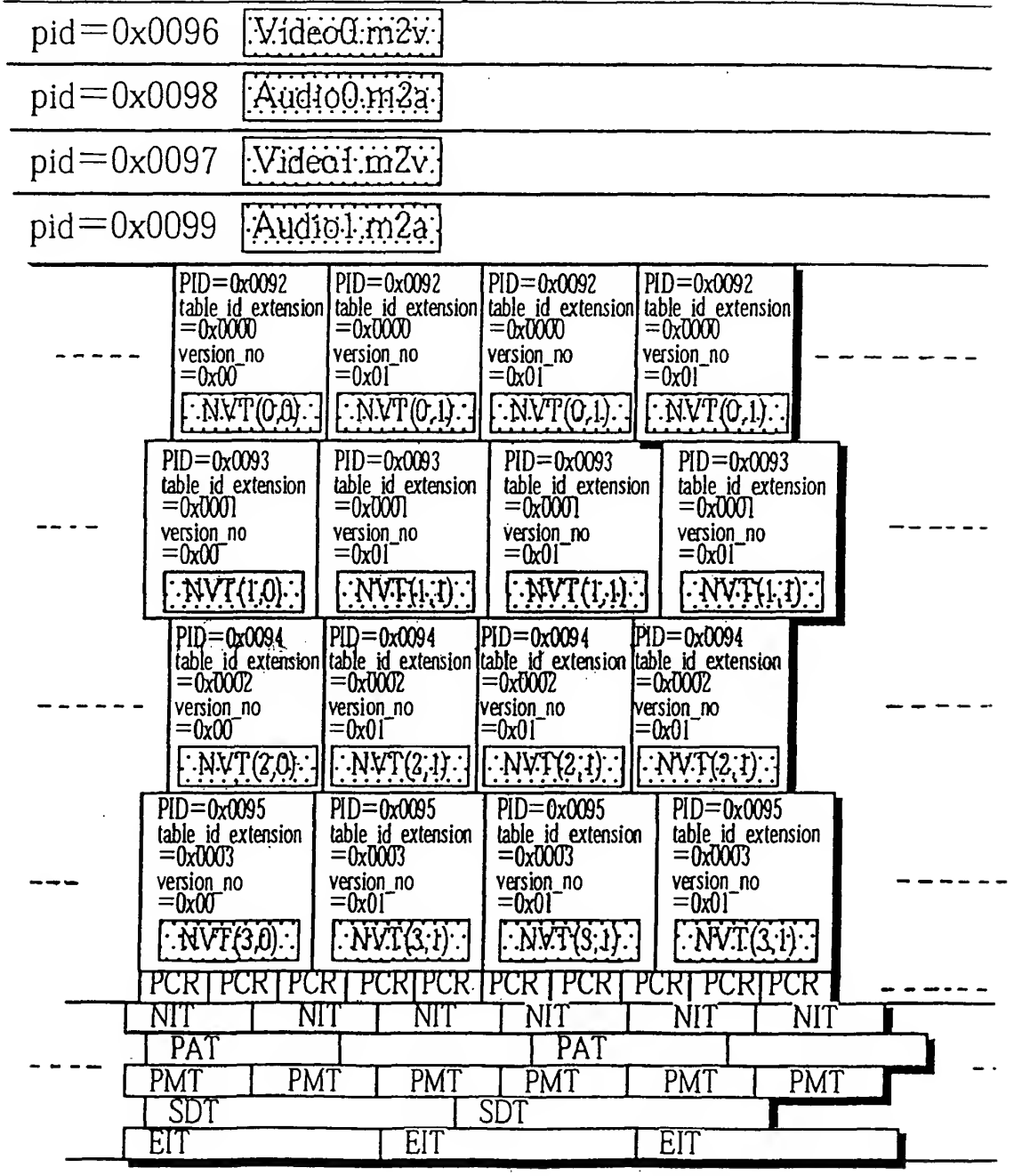

pid=0x0096
Video0.m2v
pid=0x0098
Audio0.m2a
pid=0x0097
Video1.m2v
pid=0x0099
Audio1.m2a
PID=0x0092 table_id_extension =0x0000 version_no =0x00
NVT(0,0)
PID=0x0092 table_id_extension =0x0000 version_no =0x01
NVT(0,1)
PID=0x0092 table_id_extension =0x0000 version_no =0x01
NVT(0,1)
PID=0x0092 table_id_extension =0x0000 version_no =0x01
NVT(0,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x00
NVT(1,0)
PID=0x0093 table_id_extension =0x0001 version_no =0x01
NVT(1,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x01
NVT(1,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x01
NVT(1,1)
PID=0x0094 table_id_extension =0x0002 version_no =0x00
NVT(2,0)
PID=0x0094 table_id_extension =0x0002 version_no =0x01
NVT(2,1)
PID=0x0094 table_id_extension =0x0002 version_no =0x01
NVT(2,1)
PID=0x0094 table_id_extension =0x0002 version_no =0x01
NVT(2,1)
PID=0x0095 table_id_extension =0x0003 version_no =0x00
NVT(3,0)
PID=0x0095 table_id_extension =0x0003 version_no =0x01
NVT(3,1)
PID=0x0095 table_id_extension =0x0003 version_no =0x01
NVT(3,1)
PID=0x0095 table_id_extension =0x0003 version_no =0x01
NVT(3,1)
PCR PCR PCR PCR PCR PCR PCR PCR PCR PCR
NIT NIT NIT NIT NIT NIT
PAT PAT
PMT PMT PMT PMT PMT PMT
SDT SDT
EIT EIT EIT

Fig. 29c

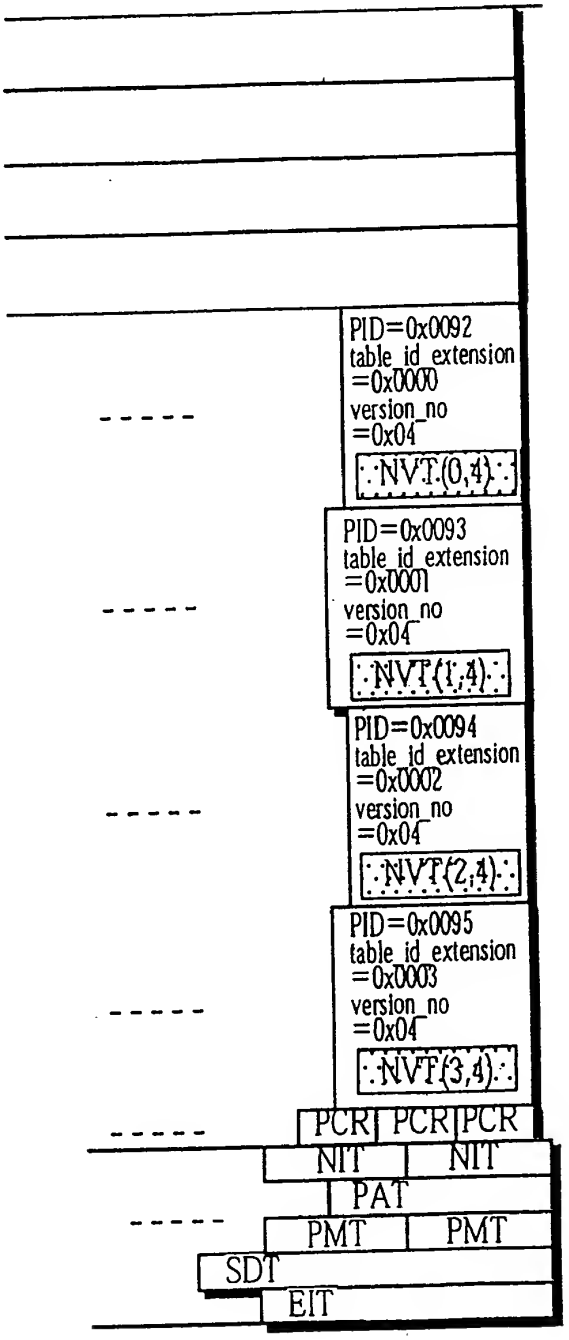

PID=0x0092
table_id_extension
=0x0000
version_no
=0x04
NVT(0,4)
PID=0x0093
table_id_extension
=0x0001
version_no
=0x04
NVT(1,4)
PID=0x0094
table_id_extension
=0x0002
version_no
=0x04
NVT(2,4)
PID=0x0095
table_id_extension
=0x0003
version_no
=0x04
NVT(3,4)
PCR
PCR
PCR
NIT
NIT
PAT
PMT
PMT
SDT
EIT

Fig. 30

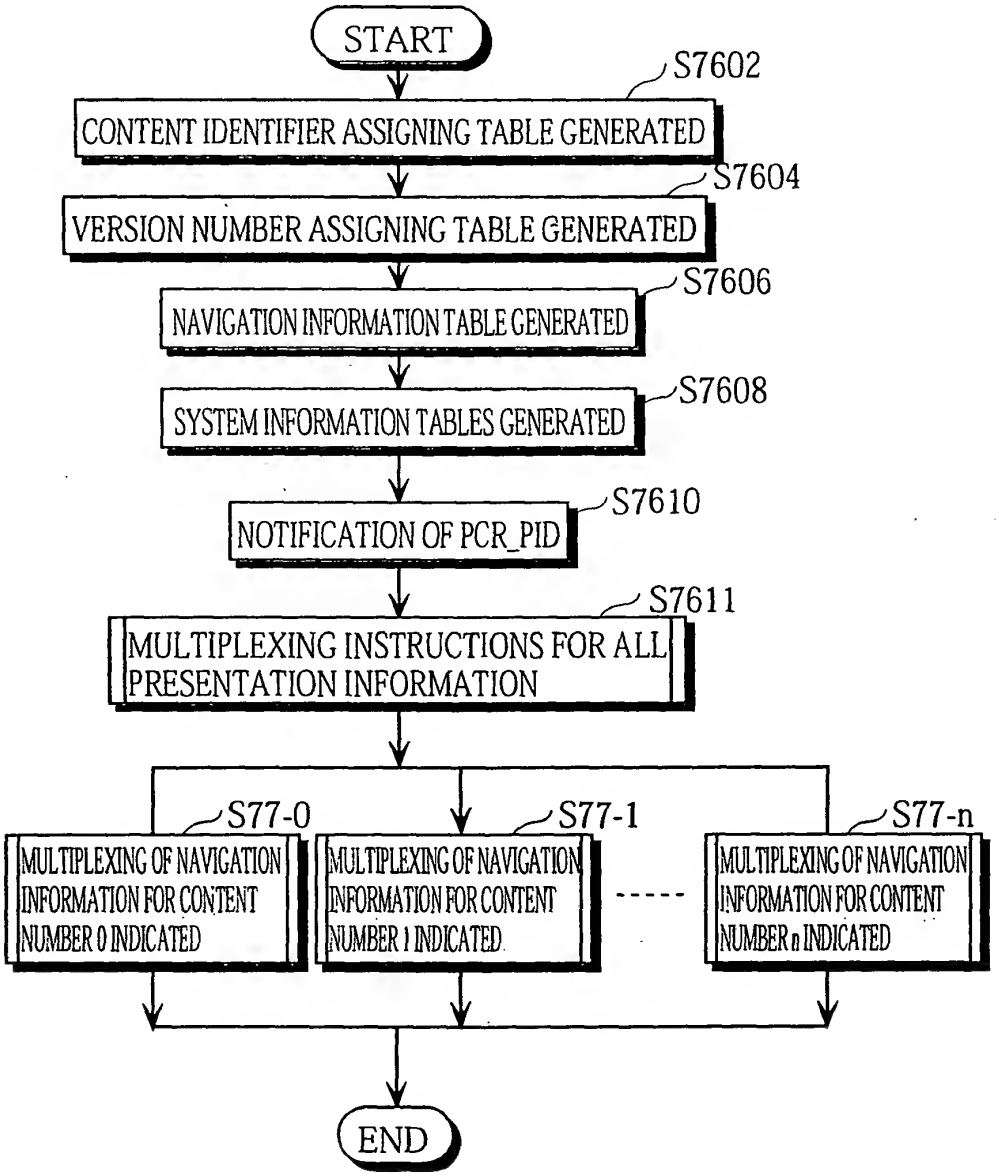

START
S7602
CONTENT IDENTIFIER ASSIGNING TABLE GENERATED
S7604
VERSION NUMBER ASSIGNING TABLE GENERATED
S7606
NAVIGATION INFORMATION TABLE GENERATED
S7608
SYSTEM INFORMATION TABLES GENERATED
S7610
NOTIFICATION OF PCR_PID
S7611
MULTIPLEXING INSTRUCTIONS FOR ALL PRESENTATION INFORMATION
S77-0
MULTIPLEXING OF NAVIGATION INFORMATION FOR CONTENT NUMBER 0 INDICATED
S77-1
MULTIPLEXING OF NAVIGATION INFORMATION FOR CONTENT NUMBER 1 INDICATED
S77-n
MULTIPLEXING OF NAVIGATION INFORMATION FOR CONTENT NUMBER n INDICATED
END

Fig. 31

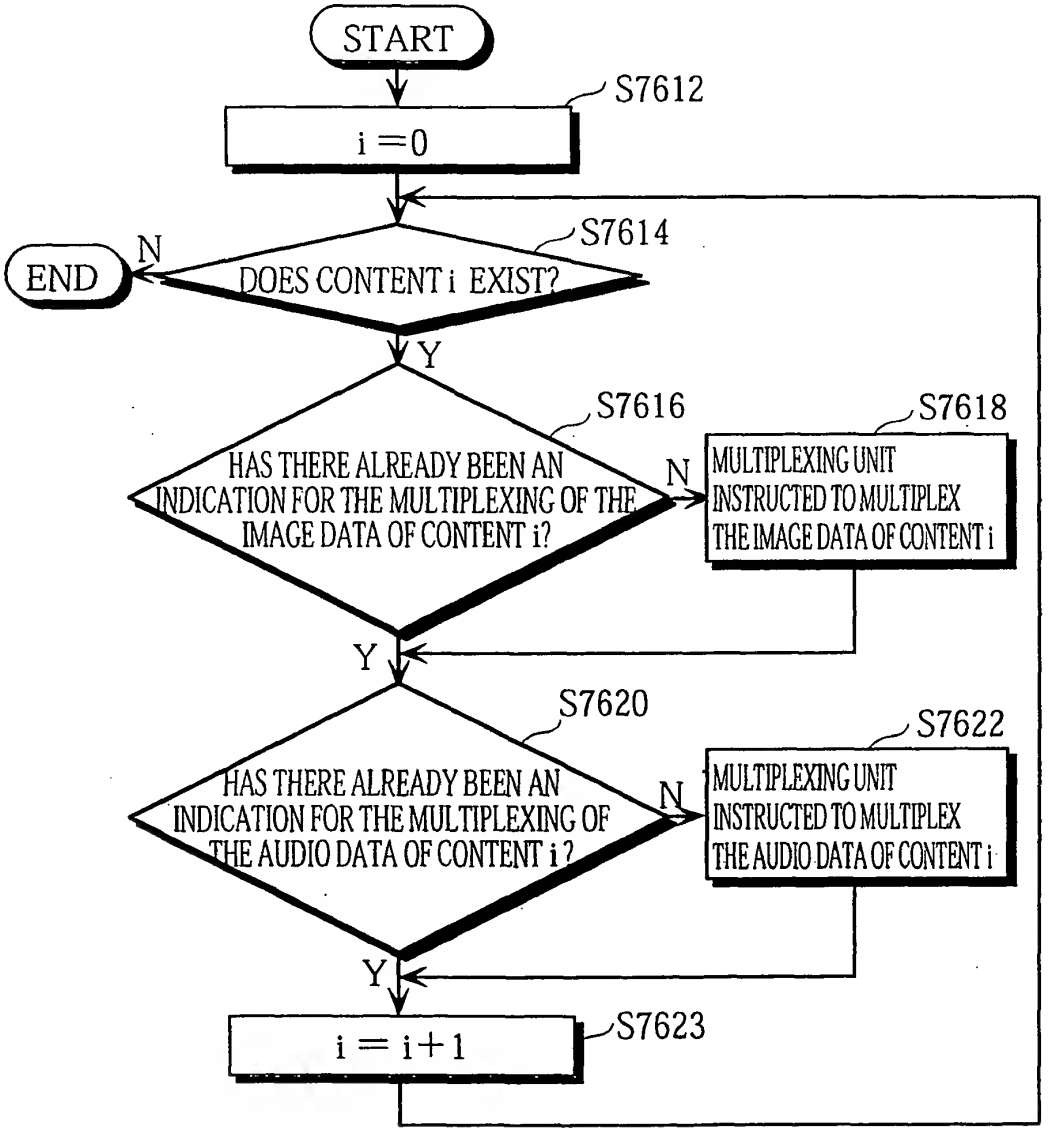

START
S7612
i =0
S7614
DOES CONTENT i EXIST?
N
END
Y
S7616
HAS THERE ALREADY BEEN AN INDICATION FOR THE MULTIPLEXING OF THE IMAGE DATA OF CONTENT i?
N
S7618
MULTIPLEXING UNIT INSTRUCTED TO MULTIPLEX THE IMAGE DATA OF CONTENT i
Y
S7620
HAS THERE ALREADY BEEN AN INDICATION FOR THE MULTIPLEXING OF THE AUDIO DATA OF CONTENT i?
N
S7622
MULTIPLEXING UNIT INSTRUCTED TO MULTIPLEX THE AUDIO DATA OF CONTENT i
Y
i = i+1
S7623

Fig. 32

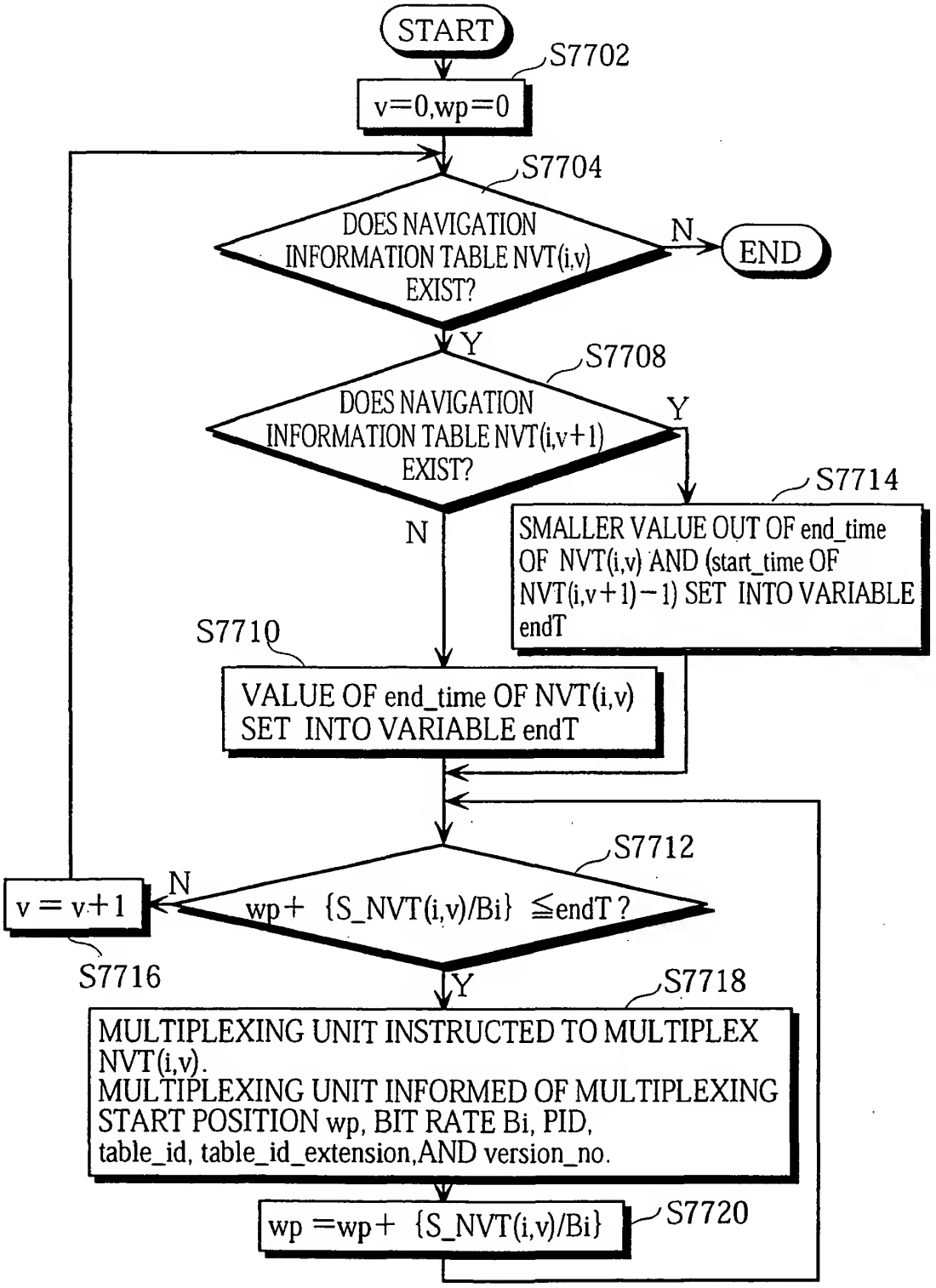

START
S7702
v=0,wp=0
S7704
DOES NAVIGATION INFORMATION TABLE NVT(i,v) EXIST?
N
END
Y
S7708
DOES NAVIGATION INFORMATION TABLE NVT(i,v+1) EXIST?
Y
N
S7714
SMALLER VALUE OUT OF end_time OF NVT(i,v) AND (start_time OF NVT(i,v+1)−1) SET INTO VARIABLE endT
S7710
VALUE OF end_time OF NVT(i,v) SET INTO VARIABLE endT
S7712
wp+ {S_NVT(i,v)/Bi} ≦endT ?
N
v = v+1
S7716
Y
S7718
MULTIPLEXING UNIT INSTRUCTED TO MULTIPLEX NVT(i,v).
MULTIPLEXING UNIT INFORMED OF MULTIPLEXING START POSITION wp, BIT RATE Bi, PID, table_id, table_id_extension,AND version_no.
wp =wp+ {S_NVT(i,v)/Bi}
S7720

Fig. 33A

7802 FILTER IDENTIFICATION NUMBER	7803 PID	7801 table_id_ext	7804 version_no	7805 OUTPUT DESTINATION
0	0x0096			AV DECODER UNIT
1	0x0098			AV DECODER UNIT
2	0x0092	0x0000	—	NAVIGATION INFORMATION TABLE STORAGE UNIT
⋮	⋮	⋮	⋮	⋮

Fig. 33B

FILTER IDENTIFICATION NUMBER	PID	7807 table_id_ext	version_no	OUTPUT DESTINATION
0	0x0096			AV DECODER UNIT
1	0x0098			AV DECODER UNIT
2	0x0092	0x0000	0x01	NAVIGATION INFORMATION TABLE STORAGE UNIT
⋮	⋮	⋮	⋮	⋮

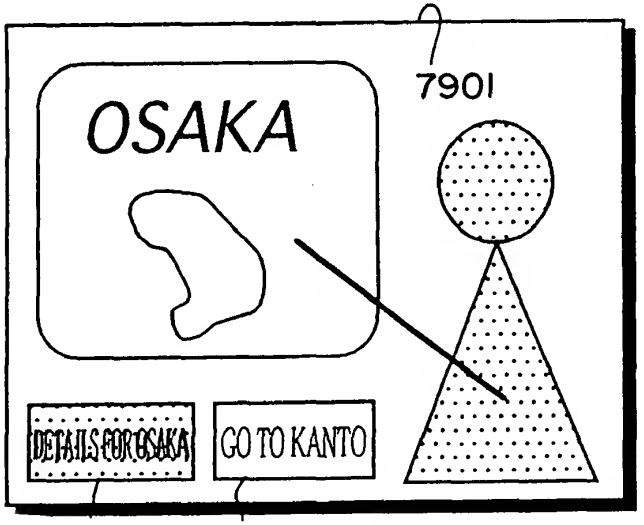


Fig. 34a

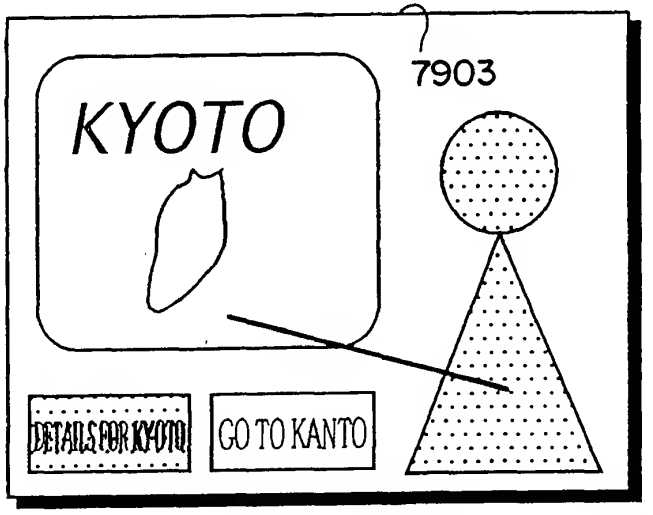


Fig. 34c

FIG. 34b

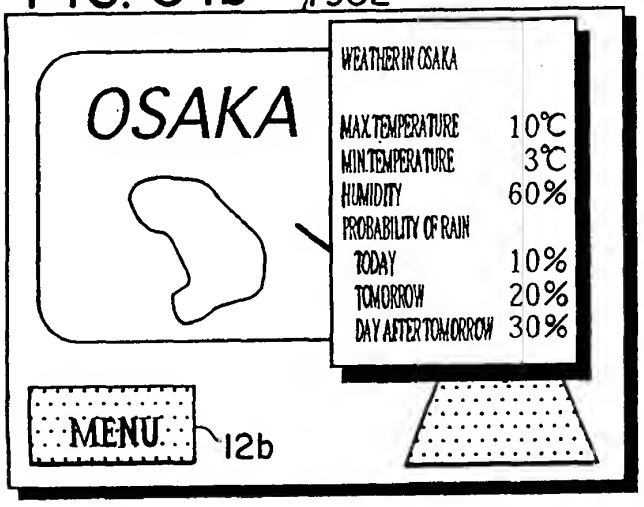


FIG. 34d

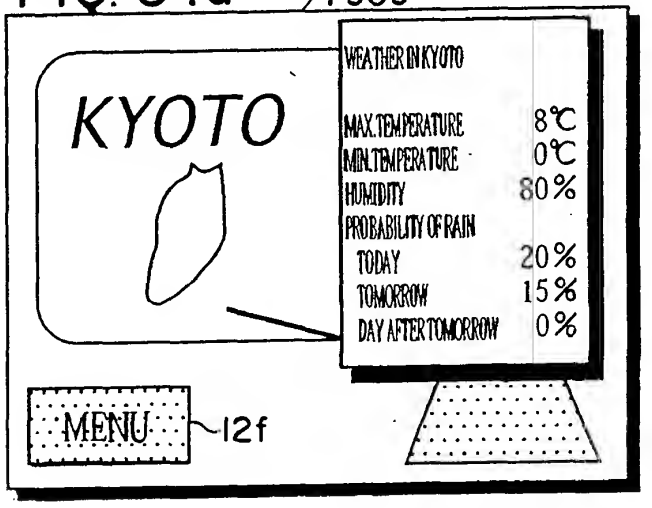


Fig. 35A

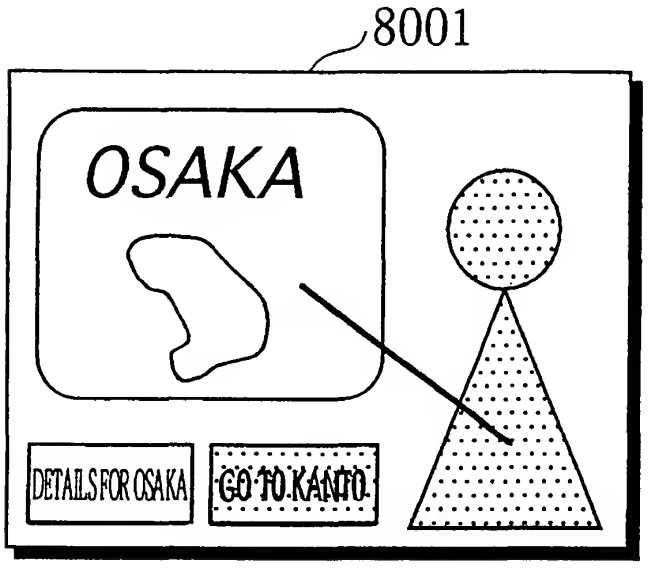


Fig. 35B

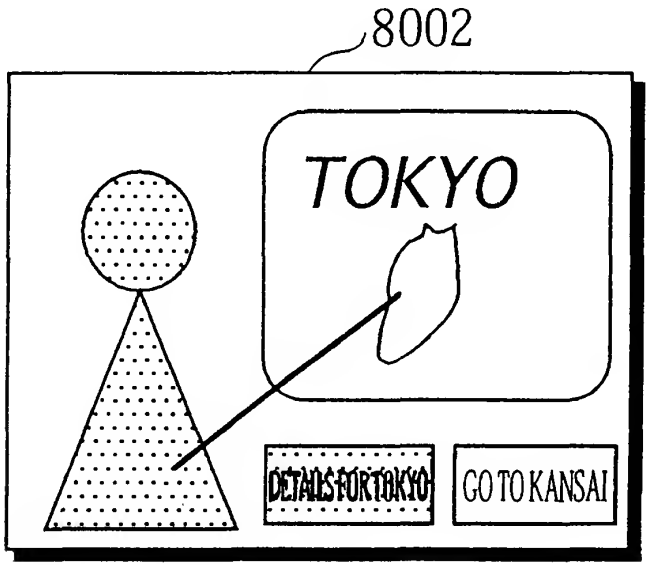


Fig. 36

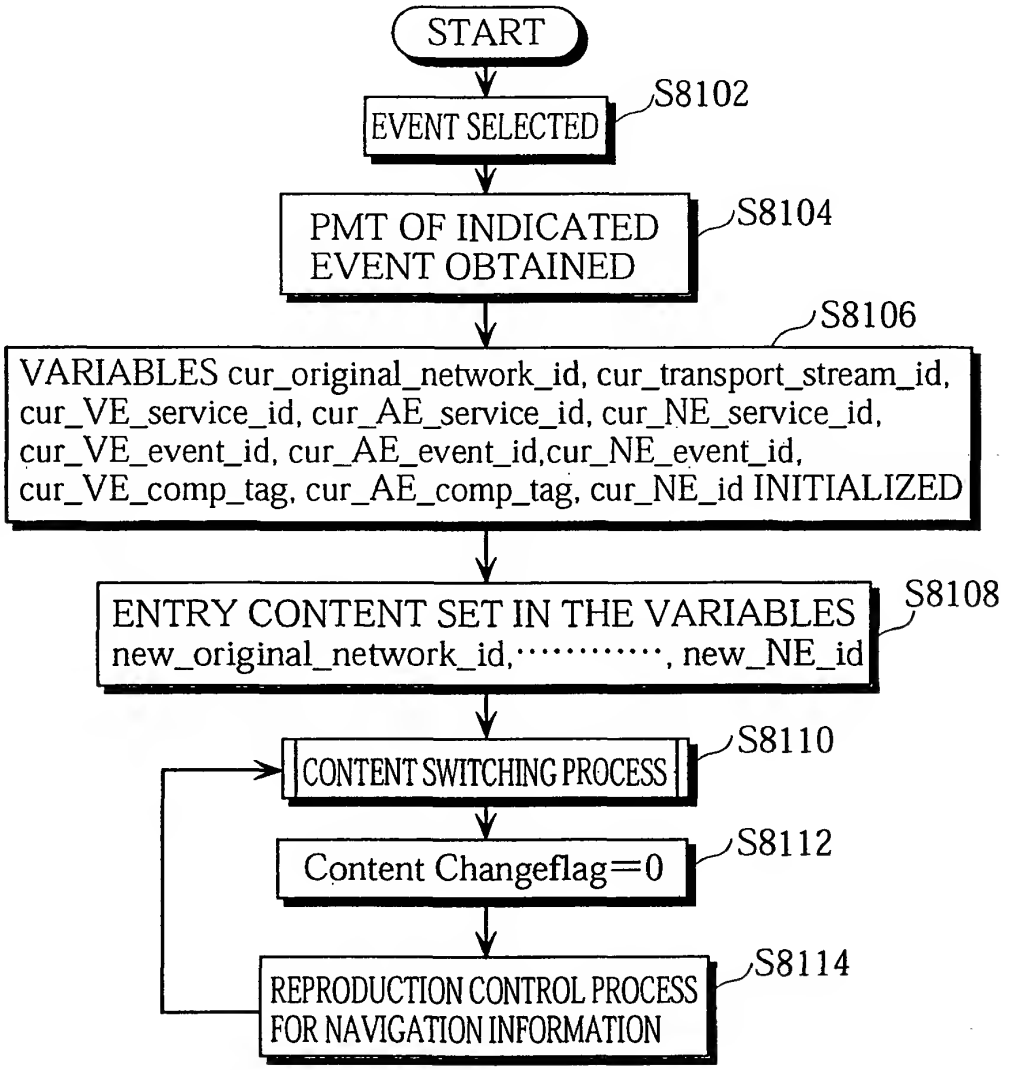

START
EVENT SELECTED
S8102
PMT OF INDICATED EVENT OBTAINED
S8104
S8106
VARIABLES cur_original_network_id, cur_transport_stream_id, cur_VE_service_id, cur_AE_service_id, cur_NE_service_id, cur_VE_event_id, cur_AE_event_id,cur_NE_event_id, cur_VE_comp_tag, cur_AE_comp_tag, cur_NE_id INITIALIZED
ENTRY CONTENT SET IN THE VARIABLES new_original_network_id,·····, new_NE_id
S8108
CONTENT SWITCHING PROCESS
S8110
Content Changeflag=0
S8112
REPRODUCTION CONTROL PROCESS FOR NAVIGATION INFORMATION
S8114

Fig. 37

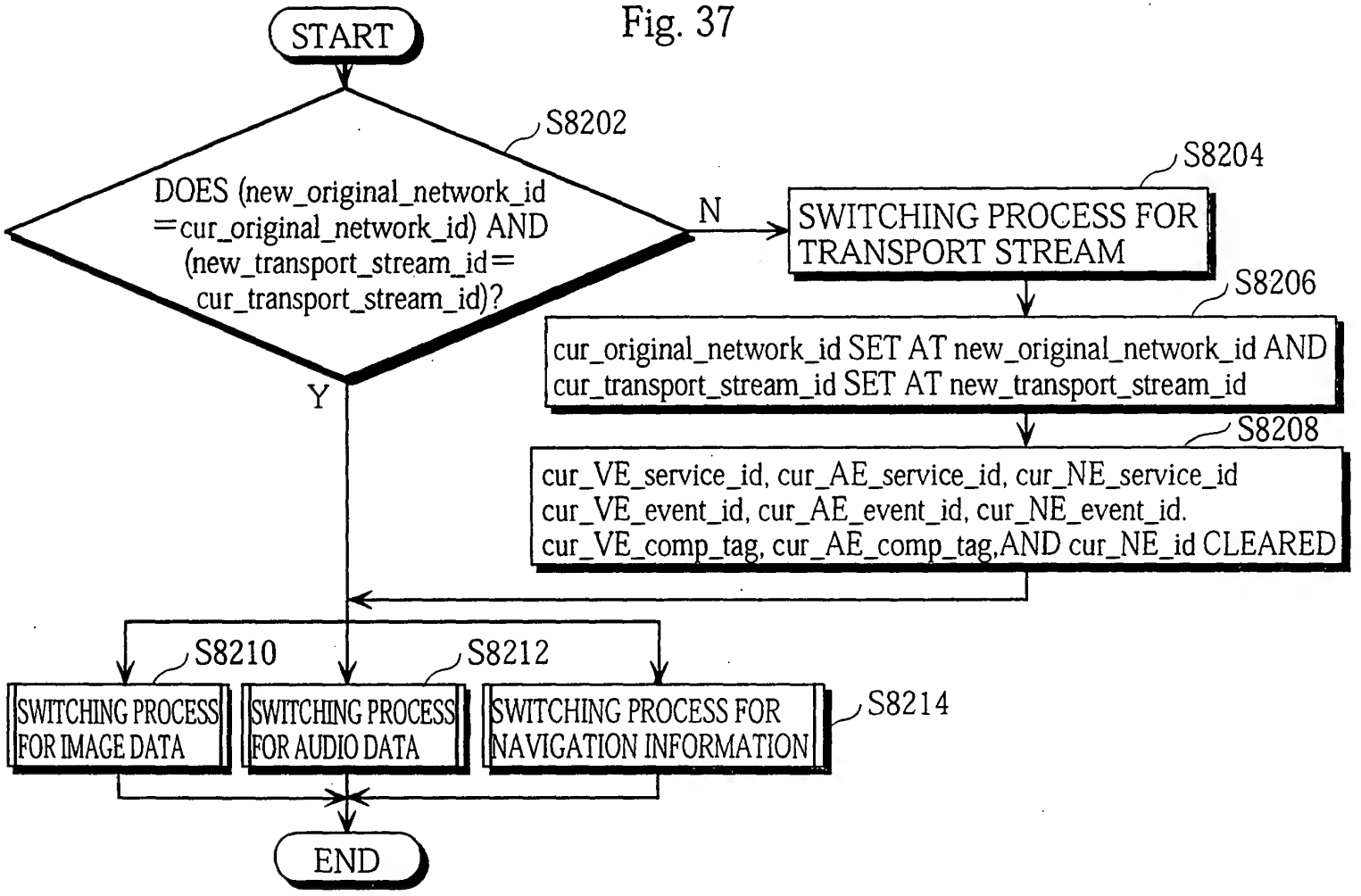

START
S8202
DOES (new_original_network_id =cur_original_network_id) AND (new_transport_stream_id= cur_transport_stream_id)?
N
S8204
SWITCHING PROCESS FOR TRANSPORT STREAM
S8206
cur_original_network_id SET AT new_original_network_id AND cur_transport_stream_id SET AT new_transport_stream_id
S8208
cur_VE_service_id, cur_AE_service_id, cur_NE_service_id cur_VE_event_id, cur_AE_event_id, cur_NE_event_id. cur_VE_comp_tag, cur_AE_comp_tag,AND cur_NE_id CLEARED
Y
S8210
S8212
S8214
SWITCHING PROCESS FOR IMAGE DATA
SWITCHING PROCESS FOR AUDIO DATA
SWITCHING PROCESS FOR NAVIGATION INFORMATION
END

Fig. 38

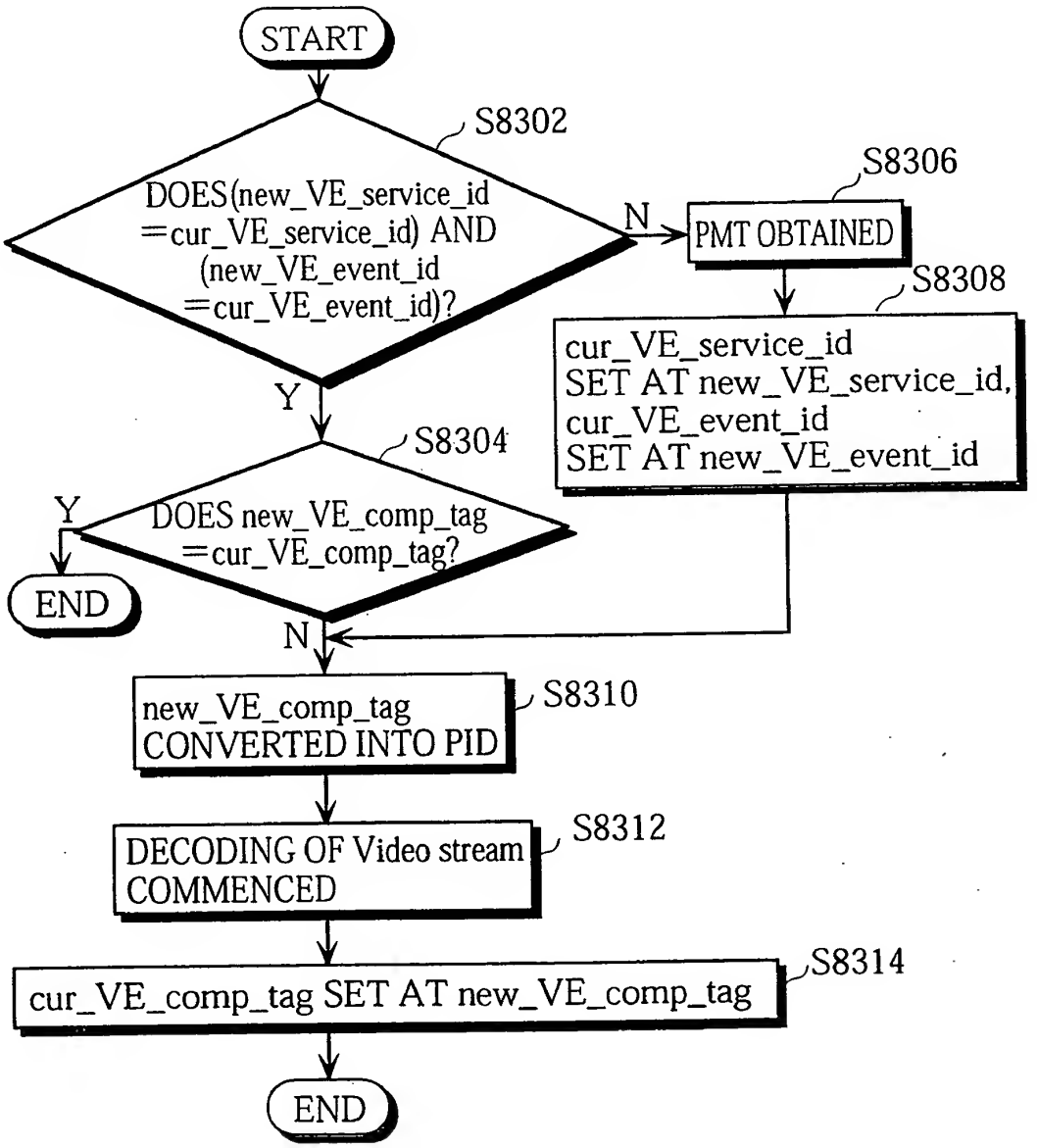

START
S8302
DOES(new_VE_service_id =cur_VE_service_id) AND (new_VE_event_id =cur_VE_event_id)?
N
S8306
PMT OBTAINED
S8308
cur_VE_service_id SET AT new_VE_service_id, cur_VE_event_id SET AT new_VE_event_id
Y
S8304
DOES new_VE_comp_tag =cur_VE_comp_tag?
Y
END
N
new_VE_comp_tag CONVERTED INTO PID
S8310
DECODING OF Video stream COMMENCED
S8312
cur_VE_comp_tag SET AT new_VE_comp_tag
S8314
END

Fig. 39

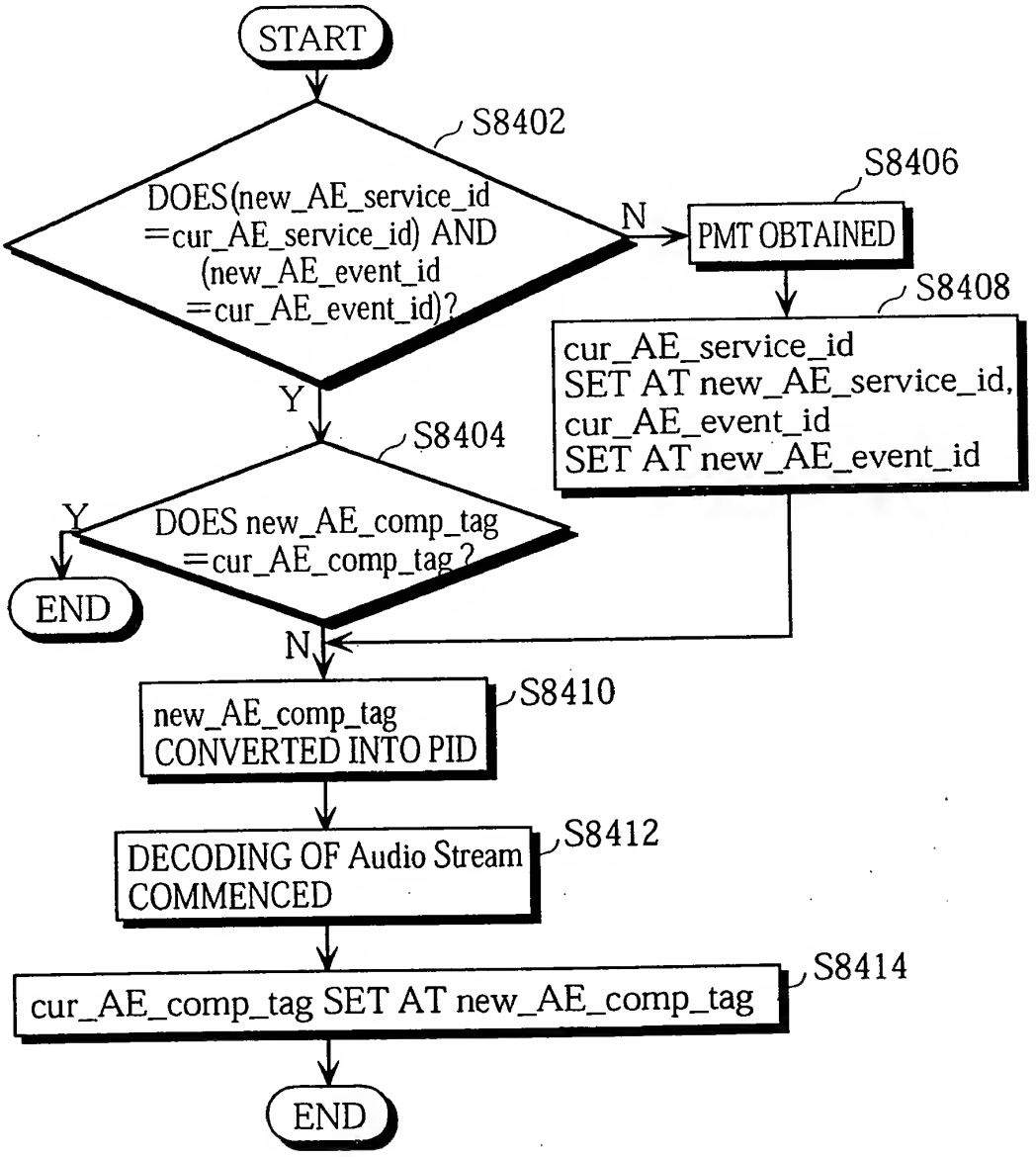

START
S8402
DOES(new_AE_service_id =cur_AE_service_id) AND (new_AE_event_id =cur_AE_event_id)?
N
S8406
PMT OBTAINED
S8408
cur_AE_service_id SET AT new_AE_service_id, cur_AE_event_id SET AT new_AE_event_id
Y
S8404
DOES new_AE_comp_tag =cur_AE_comp_tag ?
Y
END
N
new_AE_comp_tag CONVERTED INTO PID
S8410
DECODING OF Audio Stream COMMENCED
S8412
cur_AE_comp_tag SET AT new_AE_comp_tag
S8414
END

Fig. 40

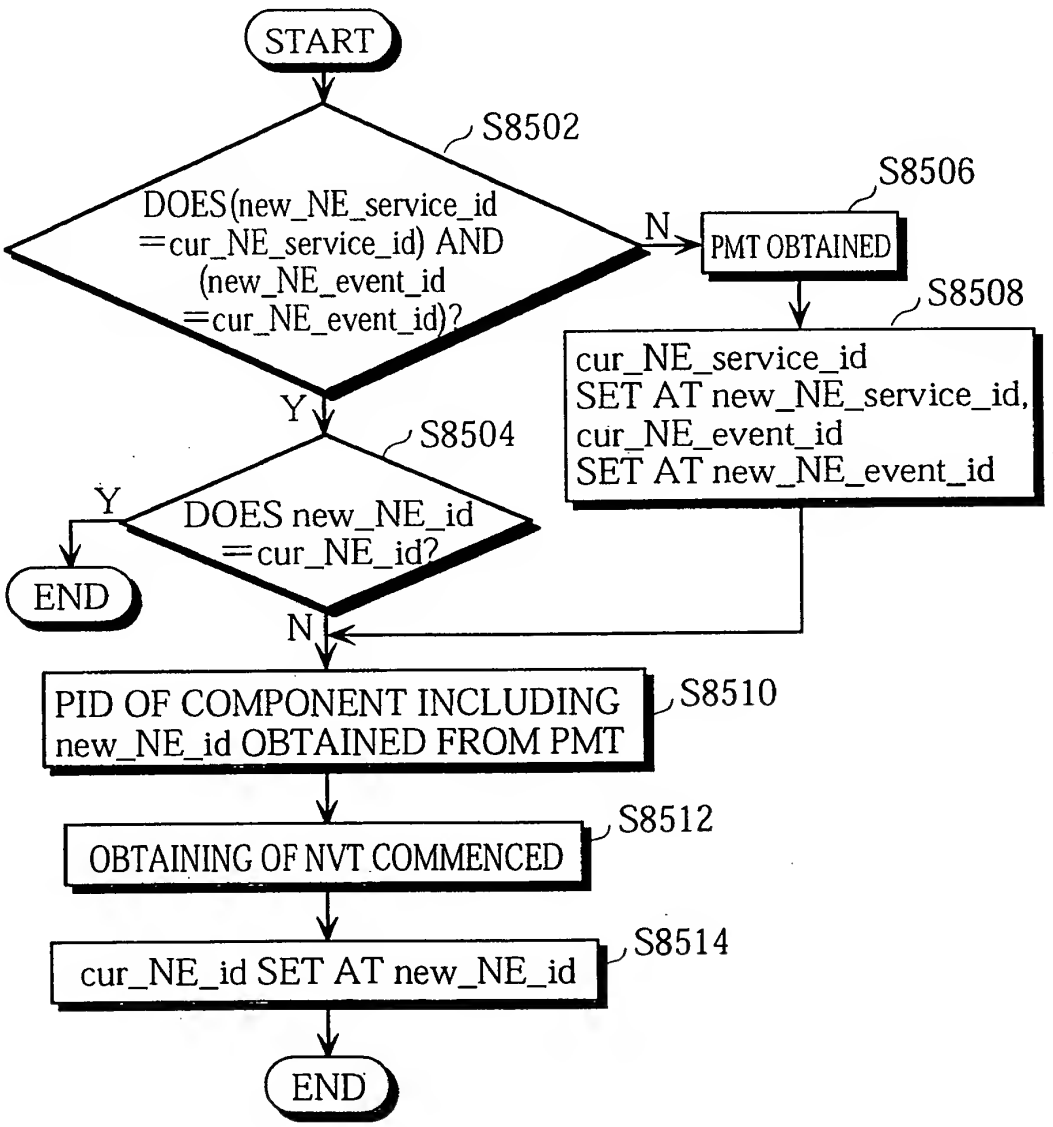

START
S8502
DOES(new_NE_service_id =cur_NE_service_id) AND (new_NE_event_id =cur_NE_event_id)?
N
S8506
PMT OBTAINED
S8508
cur_NE_service_id SET AT new_NE_service_id, cur_NE_event_id SET AT new_NE_event_id
Y
S8504
DOES new_NE_id =cur_NE_id?
Y
END
N
PID OF COMPONENT INCLUDING new_NE_id OBTAINED FROM PMT
S8510
OBTAINING OF NVT COMMENCED
S8512
cur_NE_id SET AT new_NE_id
S8514
END

Fig. 41

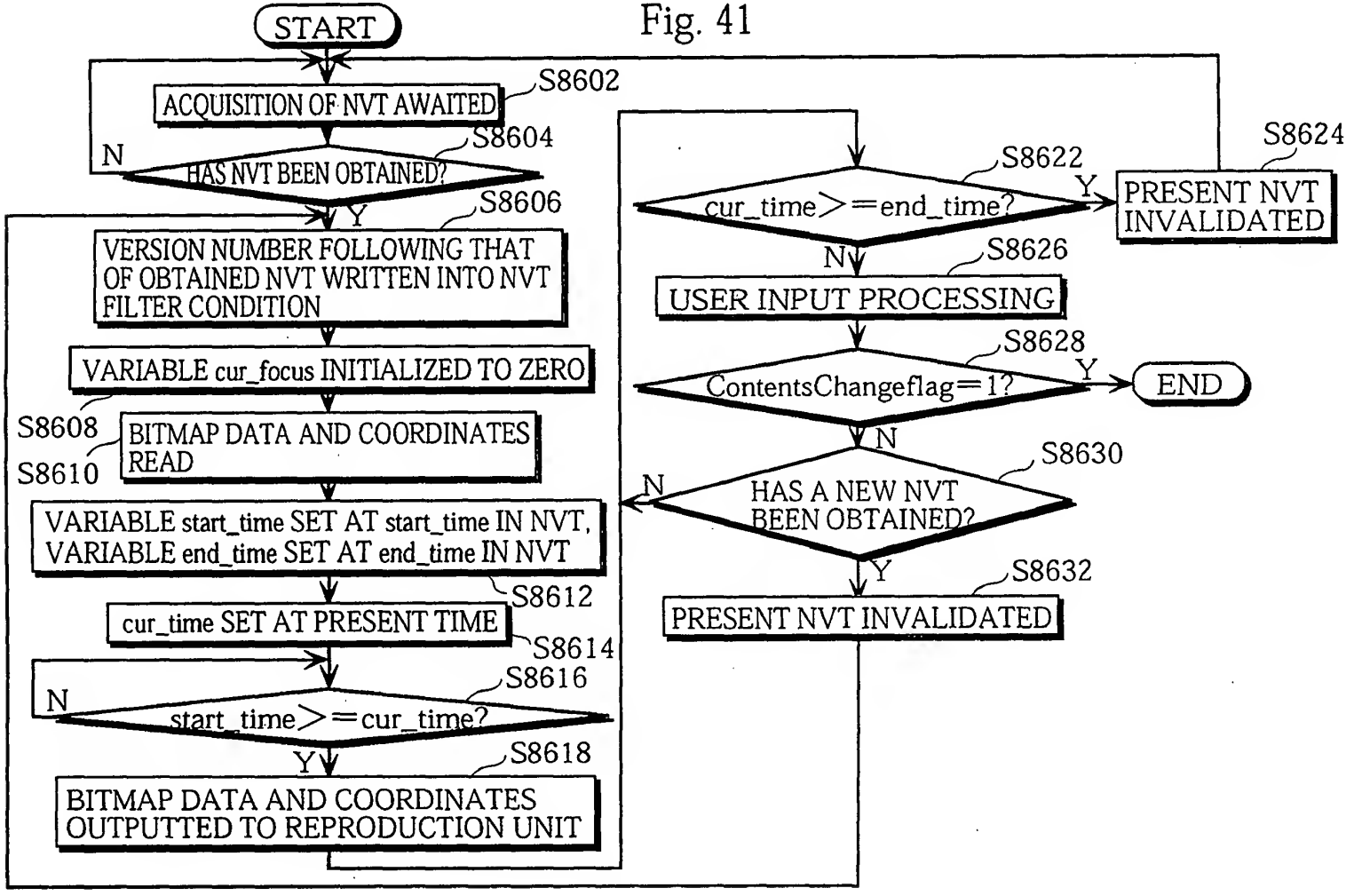

START
ACQUISITION OF NVT AWAITED
S8602
N
HAS NVT BEEN OBTAINED?
S8604
Y
VERSION NUMBER FOLLOWING THAT OF OBTAINED NVT WRITTEN INTO NVT FILTER CONDITION
S8606
VARIABLE cur_focus INITIALIZED TO ZERO
S8608
BITMAP DATA AND COORDINATES READ
S8610
VARIABLE start_time SET AT start_time IN NVT, VARIABLE end_time SET AT end_time IN NVT
S8612
cur_time SET AT PRESENT TIME
S8614
N
start_time>=cur_time?
S8616
Y
BITMAP DATA AND COORDINATES OUTPUTTED TO REPRODUCTION UNIT
S8618
cur_time>=end_time?
S8622
Y
PRESENT NVT INVALIDATED
S8624
N
USER INPUT PROCESSING
S8626
ContentsChangeflag=1?
S8628
Y
END
N
HAS A NEW NVT BEEN OBTAINED?
S8630
N
Y
PRESENT NVT INVALIDATED
S8632

Fig. 42

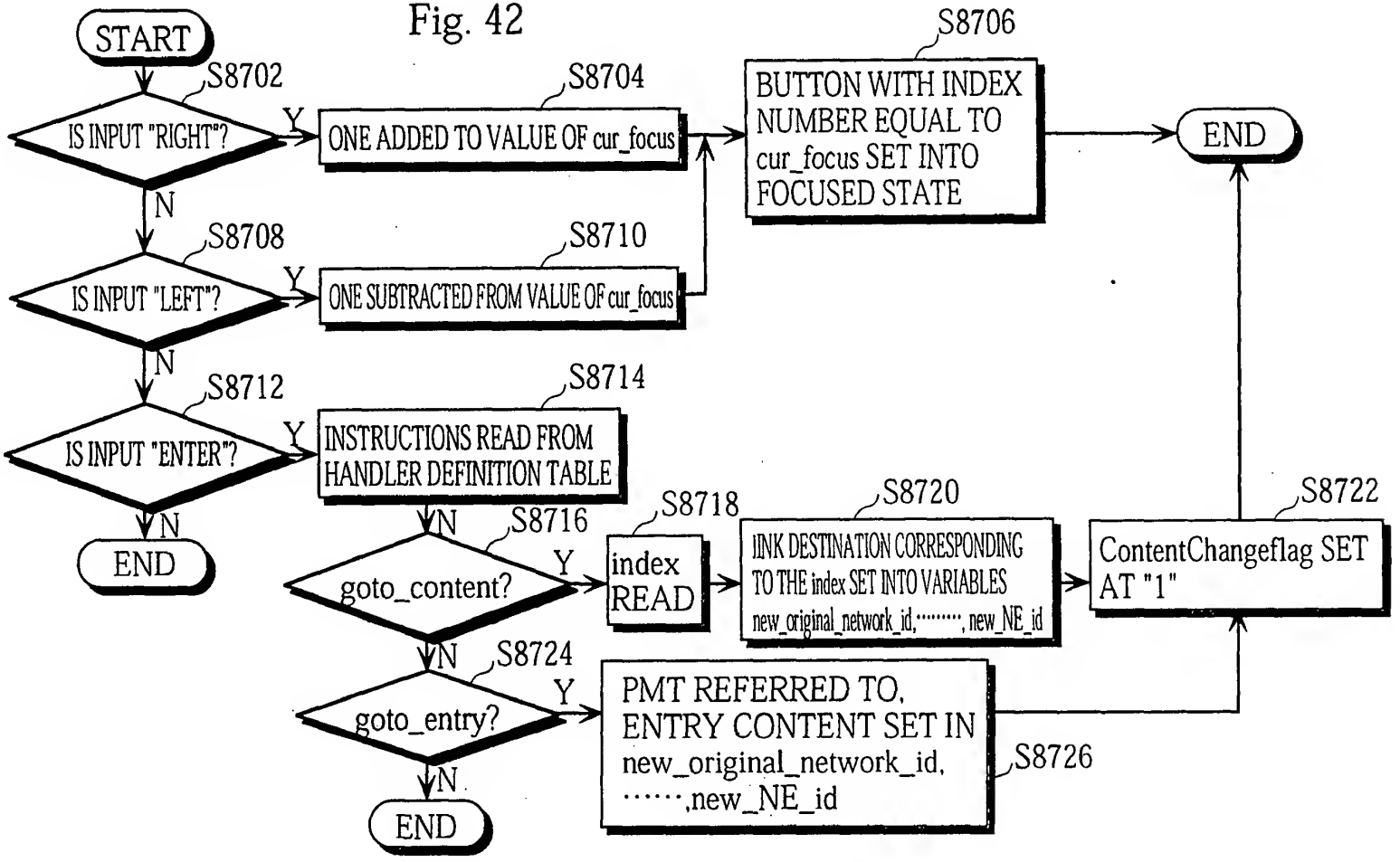
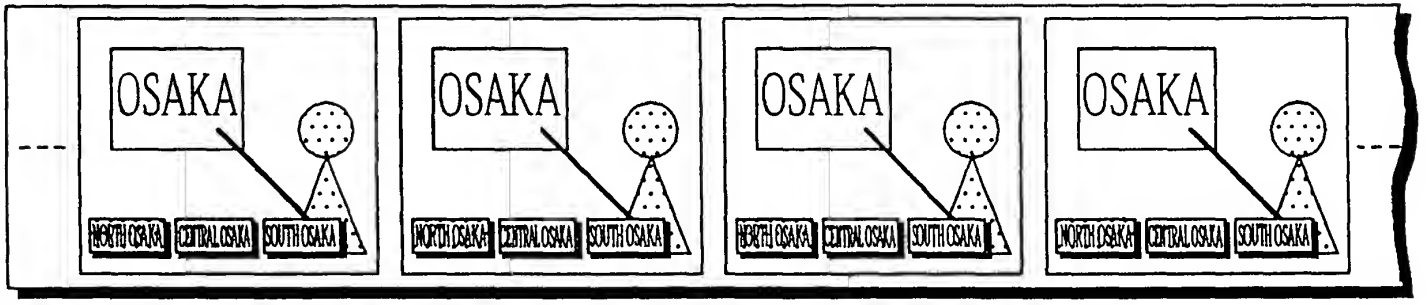

START
S8702
IS INPUT "RIGHT"?
Y
S8704
ONE ADDED TO VALUE OF cur_focus
S8706
BUTTON WITH INDEX NUMBER EQUAL TO cur_focus SET INTO FOCUSED STATE
END
N
S8708
IS INPUT "LEFT"?
Y
S8710
ONE SUBTRACTED FROM VALUE OF cur_focus
N
S8712
IS INPUT "ENTER"?
Y
S8714
INSTRUCTIONS READ FROM HANDLER DEFINITION TABLE
N
END
N
S8716
goto_content?
Y
S8718
index READ
S8720
LINK DESTINATION CORRESPONDING TO THE index SET INTO VARIABLES new_original_network_id,·····, new_NE_id
S8722
ContentChangeflag SET AT "1"
N
S8724
goto_entry?
Y
PMT REFERRED TO, ENTRY CONTENT SET IN new_original_network_id, ·····,new_NE_id
S8726
N
END

FIG. 43A

CONTENT 10



CONTENT 11

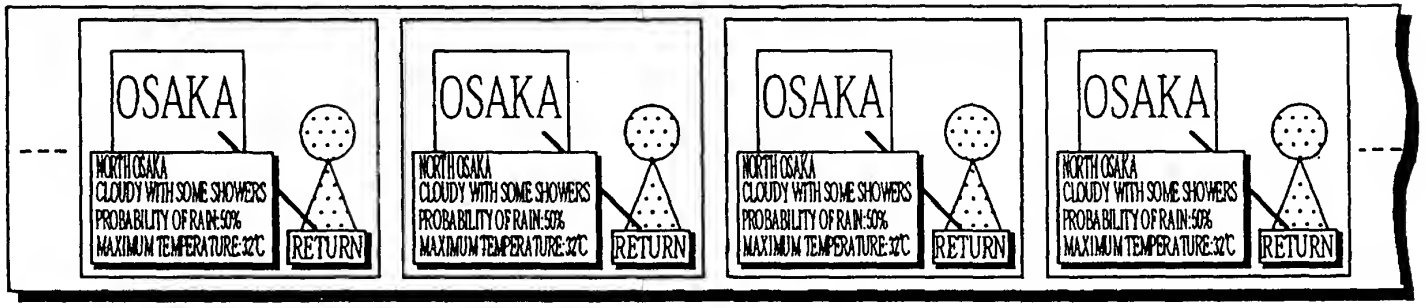
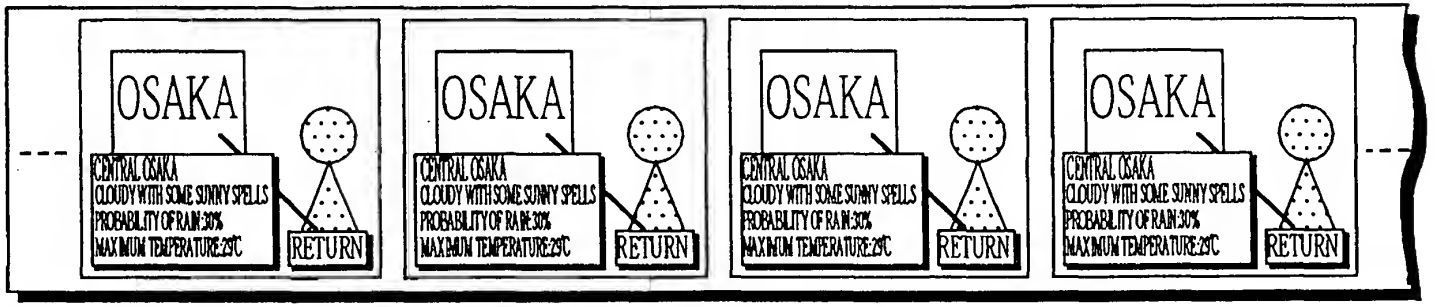


FIG. 43B

CONTENT 12



CONTENT 13

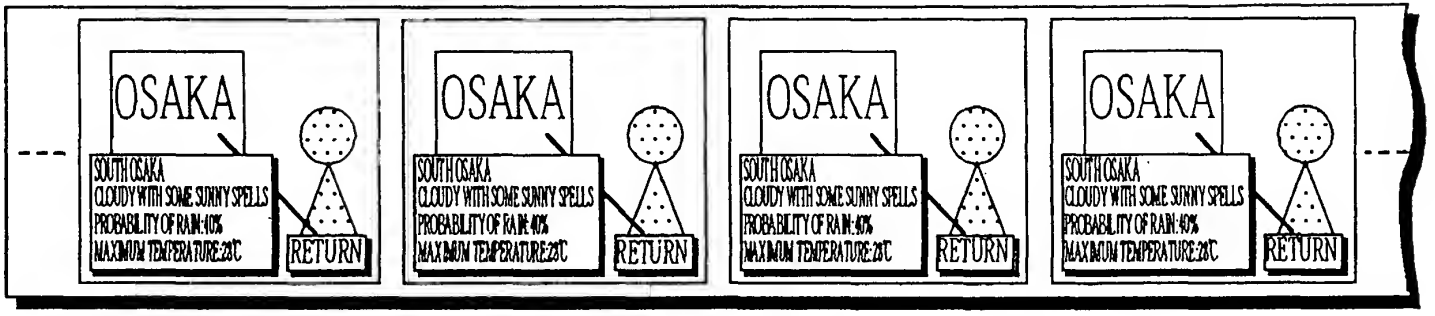


Fig. 44

Navi10-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	50	300	0	0	1
1	Button	200	300	1	2	3
2	Button	350	300	2	4	5

Handler Definition Table :

Handler Index	Bytecode
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	Content number
0	11
1	12
2	13

Bitmap Table :

Bitmap Index	Bitmap Data
0	NORTH OSAKA
1	NORTH OSAKA
2	CENTRAL OSAKA
3	CENTRAL OSAKA
4	SOUTH OSAKA
5	SOUTH OSAKA

Time Information Table :

start_time	5
end_time	65

Fig. 45

Navi11-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	400	300	0	0	1
1	Picture	50	150	—	2	—

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)

Hyperlink Table :

Hyperlink Index	Content number
0	10

Bitmap Table :

Bitmap Index	Bitmap Data
0	RETURN
1	RETURN
2	NORTH OSAKA CLOUDY WITH SOME SHOWERS PROBABILITY OF RAIN:50% MAXIMUM TEMPERATURE:32℃

Time Information Table :

start_time	5
end_time	65

Fig. 46

Navi12-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	400	300	0	0	1
1	Picture	50	150	—	2	—

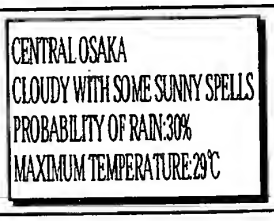
Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)

Hyperlink Table :

Hyperlink Index	Content number
0	0

Bitmap Table :

Bitmap Index	Bitmap Data
0	
1	
2	

Time Information Table :

start_time	5
end_time	65

Fig. 47

Navi13-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	400	300	0	0	1
1	Picture	50	150	—	2	—

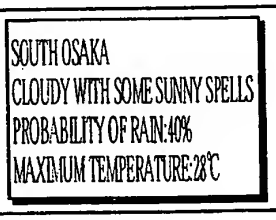
Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)

Hyperlink Table :

Hyperlink Index	Content number
0	0

Bitmap Table :

Bitmap Index	Bitmap Data
0	
1	
2	

Time Information Table :

start_time	5
end_time	65

Fig. 48

Navi10-13-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	Focused Bitmap	visibility
0	Button	50	300	0	0	1	1
1	Button	200	300	1	2	3	1
2	Button	350	300	2	4	5	1
3	Button	400	300	3	6	7	0
4	Picture	50	150	—	8	—	0
5	Picture	50	150	—	9	—	0
6	Picture	50	150	—	10	—	0

Handler Definition Table :

Handler Index	Script

0	for(i=0, i<3, i++){
	hide_object(object index i)
	}
	show_object(object index 3)
	show_object(object index 4)

1	for(i=0, i<3, i++){
	hide_object(object index i)
	}
	show_object(object index 3)
	show_object(object index 5)

2	for(i=0, i<3, i++){
	hide_object(object index i)
	}
	show_object(object index 3)
	show_object(object index 6)

3	for(i=3, i<7, i++){
	hide_object(object index i)
	}
	for(i=0, i<3, i++){
	hide_object(object index i)
	}

Bitmap Table :

Bitmap Index	Bitmap Data
0	NORTH OSAKA
1	NORTH OSAKA
2	CENTRAL OSAKA
3	CENTRAL OSAKA
4	SOUTH OSAKA
5	SOUTH OSAKA
6	RETURN
7	RETURN
8	NORTH OSAKA CLOUDY WITH SOME SHOWERS PROBABILITY OF RAIN:50% MAXIMUM TEMPERATURE:32℃
9	CENTRAL OSAKA CLOUDY WITH SOME SUNNY SPELLS PROBABILITY OF RAIN:30% MAXIMUM TEMPERATURE:29℃
10	SOUTH OSAKA CLOUDY WITH SOME SUNNY SPELLS PROBABILITY OF RAIN:40% MAXIMUM TEMPERATURE:28℃

Time Information Table :

start_time	5
end_time	65

Fig. 49

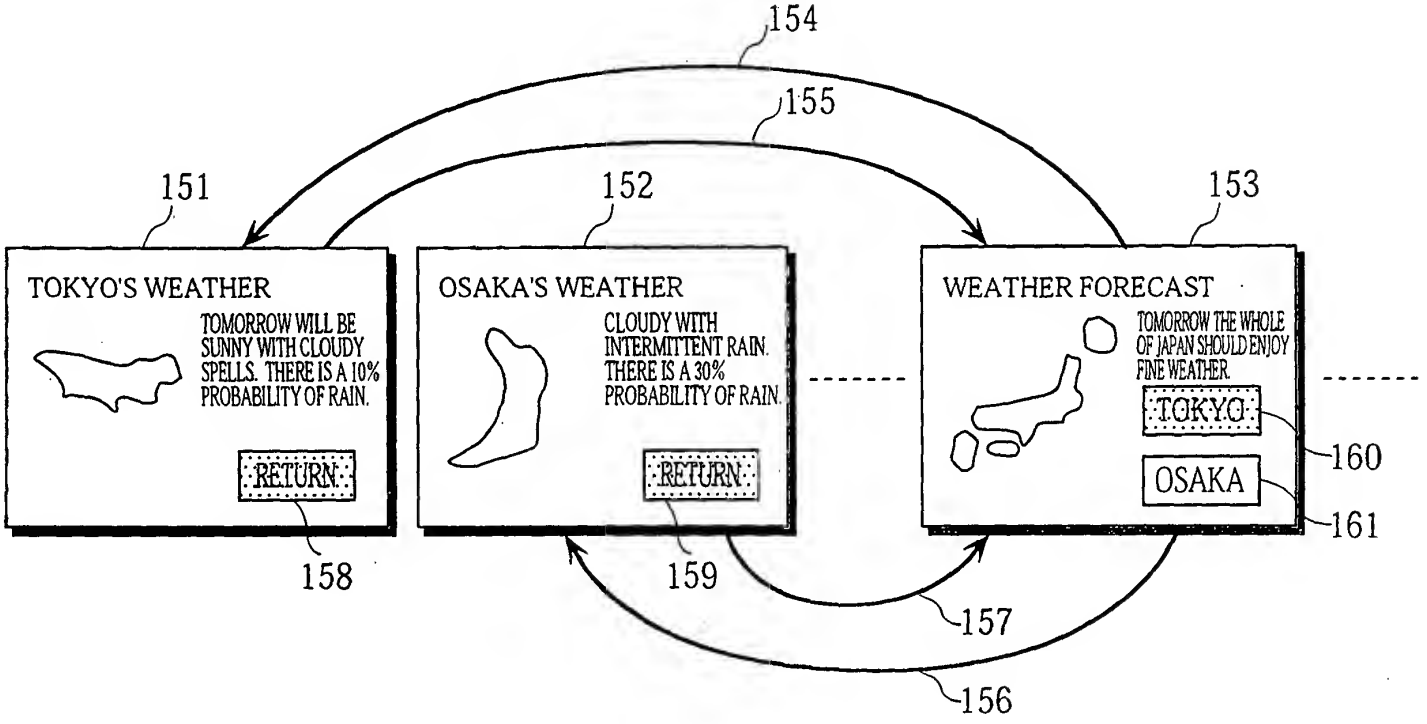

154
155
151
152
153
TOKYO'S WEATHER
TOMORROW WILL BE SUNNY WITH CLOUDY SPELLS. THERE IS A 10% PROBABILITY OF RAIN.
RETURN
158
OSAKA'S WEATHER
CLOUDY WITH INTERMITTENT RAIN. THERE IS A 30% PROBABILITY OF RAIN.
RETURN
159
WEATHER FORECAST
TOMORROW THE WHOLE OF JAPAN SHOULD ENJOY FINE WEATHER.
TOKYO
OSAKA
160
161
157
156

Fig. 50

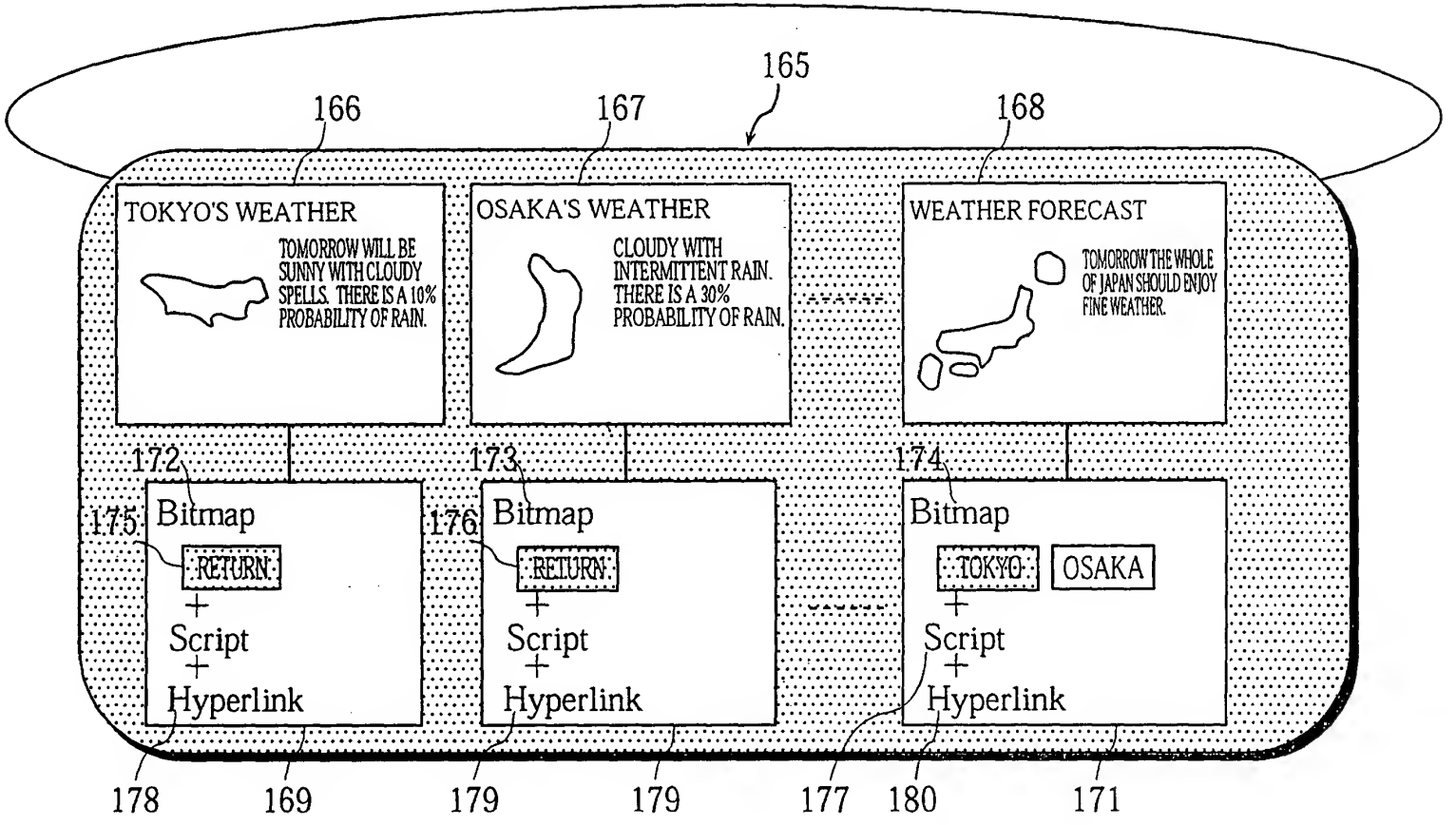

165
166
167
168
TOKYO'S WEATHER
TOMORROW WILL BE SUNNY WITH CLOUDY SPELLS. THERE IS A 10% PROBABILITY OF RAIN.
OSAKA'S WEATHER
CLOUDY WITH INTERMITTENT RAIN. THERE IS A 30% PROBABILITY OF RAIN.
WEATHER FORECAST
TOMORROW THE WHOLE OF JAPAN SHOULD ENJOY FINE WEATHER.
172
173
174
175
176
Bitmap
RETURN
+
Script
+
Hyperlink
Bitmap
RETURN
+
Script
+
Hyperlink
Bitmap
TOKYO
OSAKA
+
Script
+
Hyperlink
178
169
179
179
177
180
171

Fig. 51

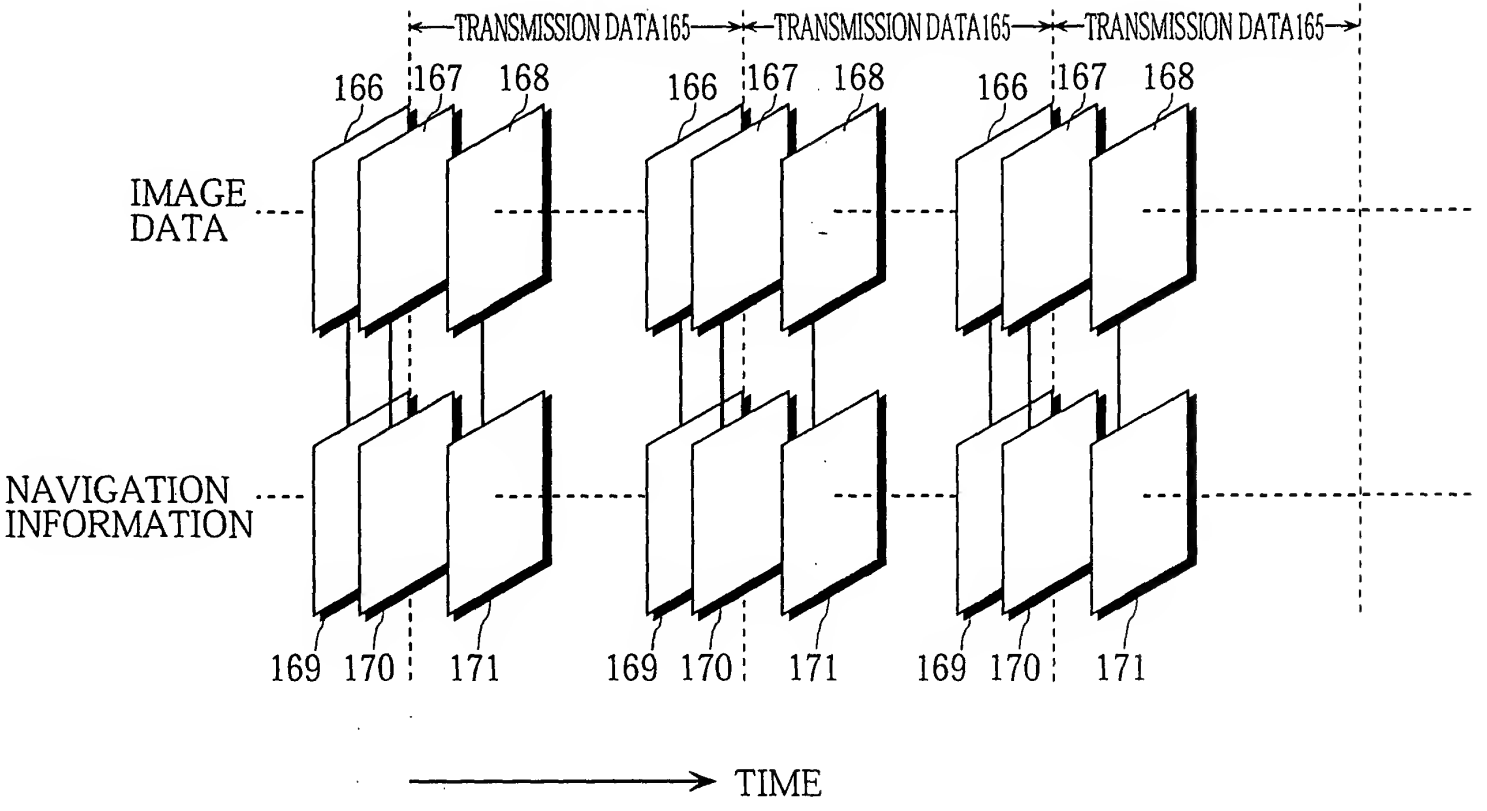

TRANSMISSION DATA165
TRANSMISSION DATA165
TRANSMISSION DATA165
166
167
168
166
167
168
166
167
168
IMAGE DATA
NAVIGATION INFORMATION
169
170
171
169
170
171
169
170
171
TIME

Fig. 52

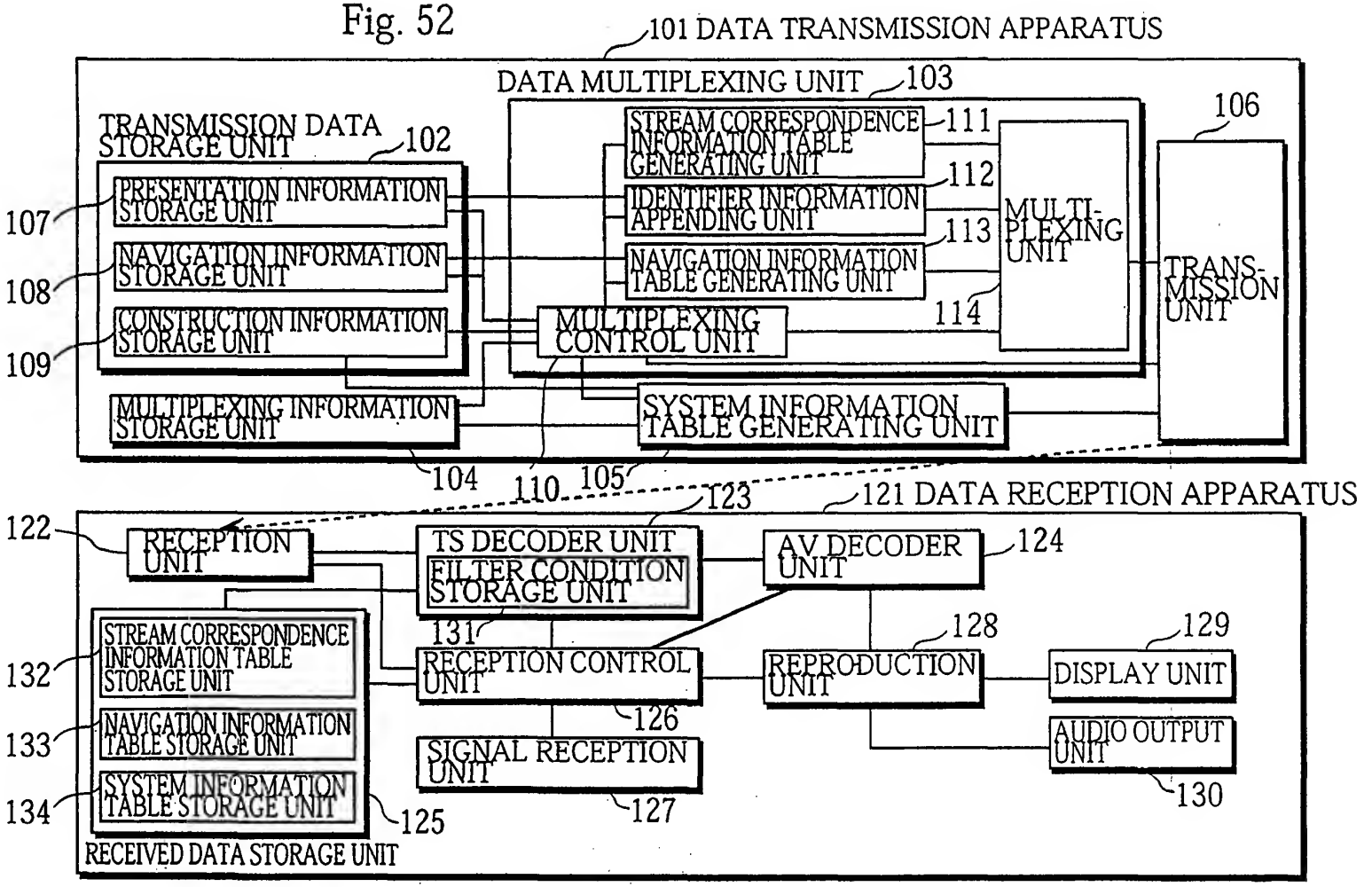

101 DATA TRANSMISSION APPARATUS
DATA MULTIPLEXING UNIT
103
TRANSMISSION DATA STORAGE UNIT
102
PRESENTATION INFORMATION STORAGE UNIT
NAVIGATION INFORMATION STORAGE UNIT
CONSTRUCTION INFORMATION STORAGE UNIT
MULTIPLEXING INFORMATION STORAGE UNIT
STREAM CORRESPONDENCE INFORMATION TABLE GENERATING UNIT
IDENTIFIER INFORMATION APPENDING UNIT
NAVIGATION INFORMATION TABLE GENERATING UNIT
MULTIPLEXING CONTROL UNIT
SYSTEM INFORMATION TABLE GENERATING UNIT
MULTI-PLEXING UNIT
TRANS-MISSION UNIT
106
107
108
109
111
112
113
114
104
110
105
121 DATA RECEPTION APPARATUS
122
RECEPTION UNIT
123
TS DECODER UNIT
FILTER CONDITION STORAGE UNIT
AV DECODER UNIT
124
131
128
129
132
STREAM CORRESPONDENCE INFORMATION TABLE STORAGE UNIT
RECEPTION CONTROL UNIT
REPRODUCTION UNIT
DISPLAY UNIT
133
NAVIGATION INFORMATION TABLE STORAGE UNIT
126
AUDIO OUTPUT UNIT
134
SYSTEM INFORMATION TABLE STORAGE UNIT
SIGNAL RECEPTION UNIT
125
127
130
RECEIVED DATA STORAGE UNIT

Fig. 53A

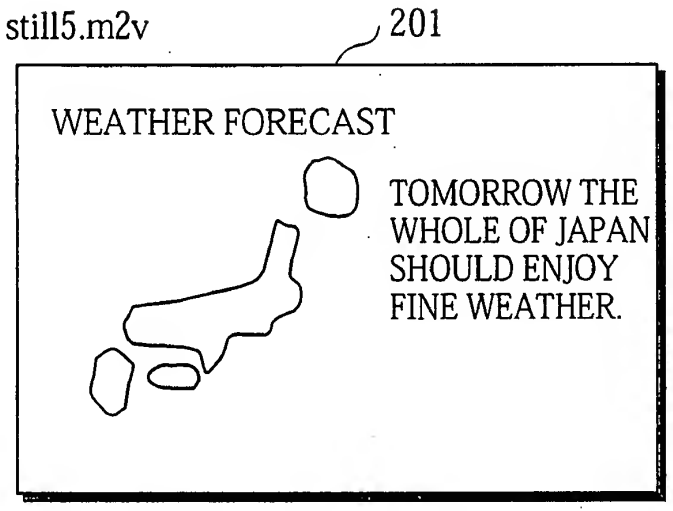


Fig. 53B

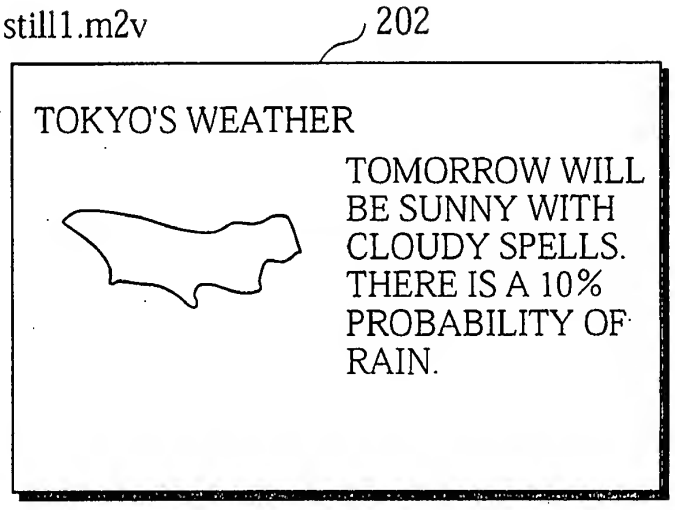


Fig. 54

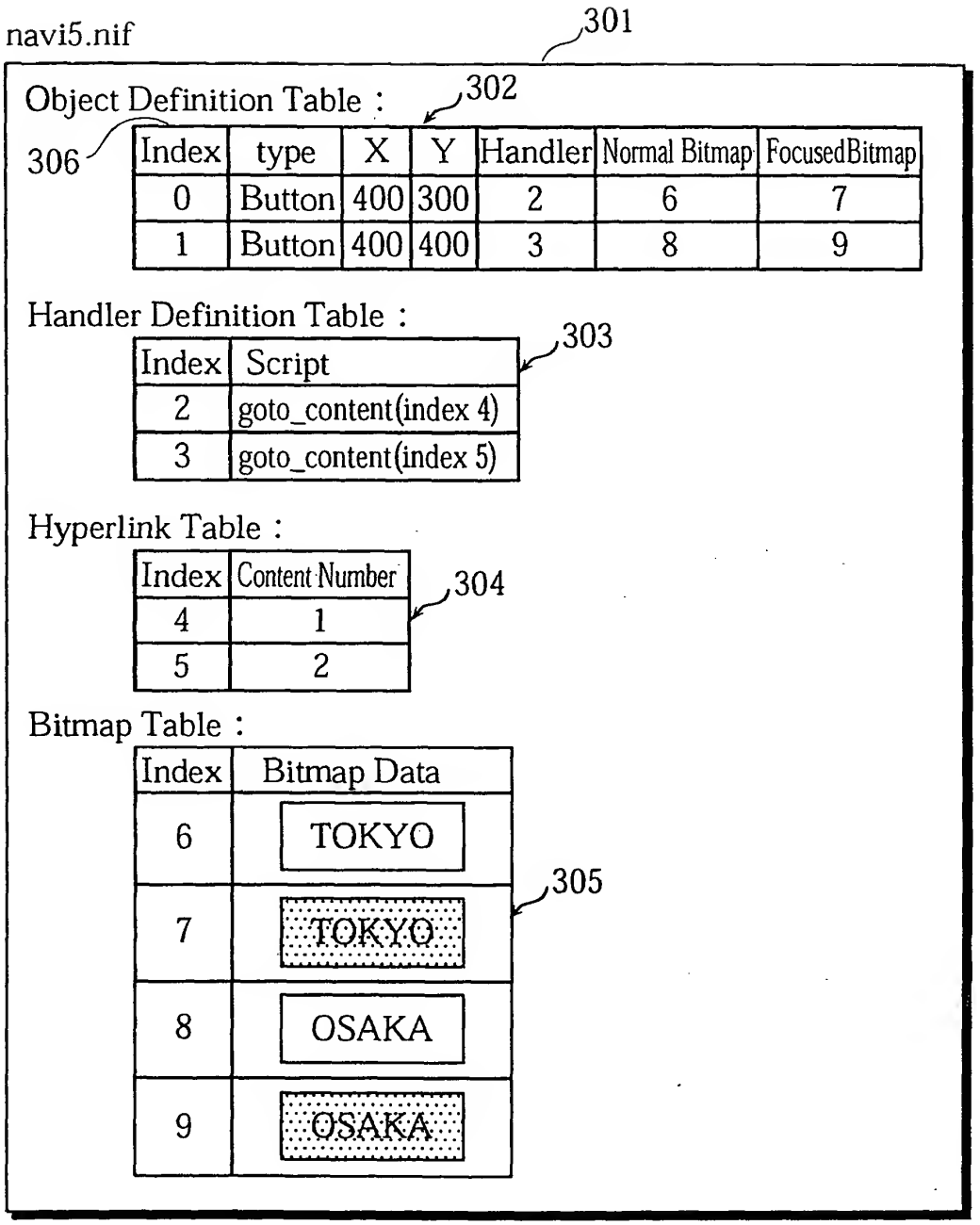

navi5.nif
301
Object Definition Table :
302
306
Index | type | X | Y | Handler | Normal Bitmap | FocusedBitmap
0 | Button | 400 | 300 | 2 | 6 | 7
1 | Button | 400 | 400 | 3 | 8 | 9
Handler Definition Table :
303
Index | Script
2 | goto_content(index 4)
3 | goto_content(index 5)
Hyperlink Table :
304
Index | Content Number
4 | 1
5 | 2
Bitmap Table :
Index | Bitmap Data
6 | TOKYO
7 | TOKYO
8 | OSAKA
9 | OSAKA
305

Fig. 55

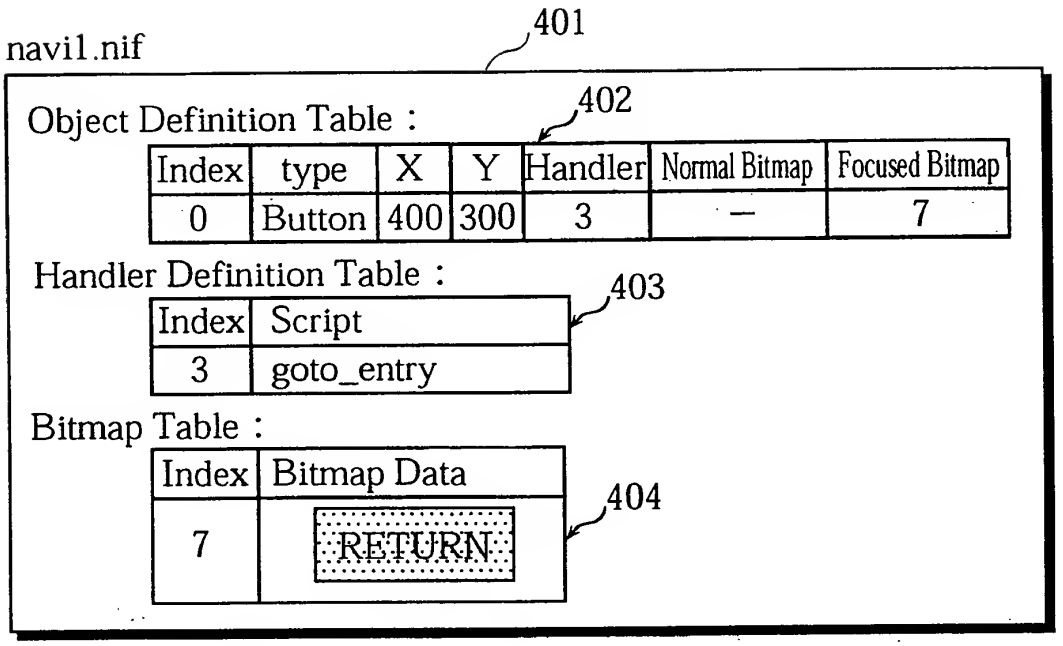

navi1.nif
401
Object Definition Table :
402
Index
type
X
Y
Handler
Normal Bitmap
Focused Bitmap
0
Button
400
300
3
—
7
Handler Definition Table :
403
Index
Script
3
goto_entry
Bitmap Table :
Index
Bitmap Data
404
7
RETURN

Fig. 56

501 CONSTRUCTION INFORMATION TABLE

CONTENT NUMBER	IMAGE DATA	NAVIGATION INFORMATION
0	still0.m2v	navi0.nif
1	still1.m2v	navi1.nif
2	still2.m2v	navi2.nif
:	:	:
5	still5.m2v	navi5.nif
:	:	:

ENTRY INFORMATION 502

ENTRY CONTENT NUMBER	5

Fig. 57

601 MULTIPLEXING INFORMATION TABLE

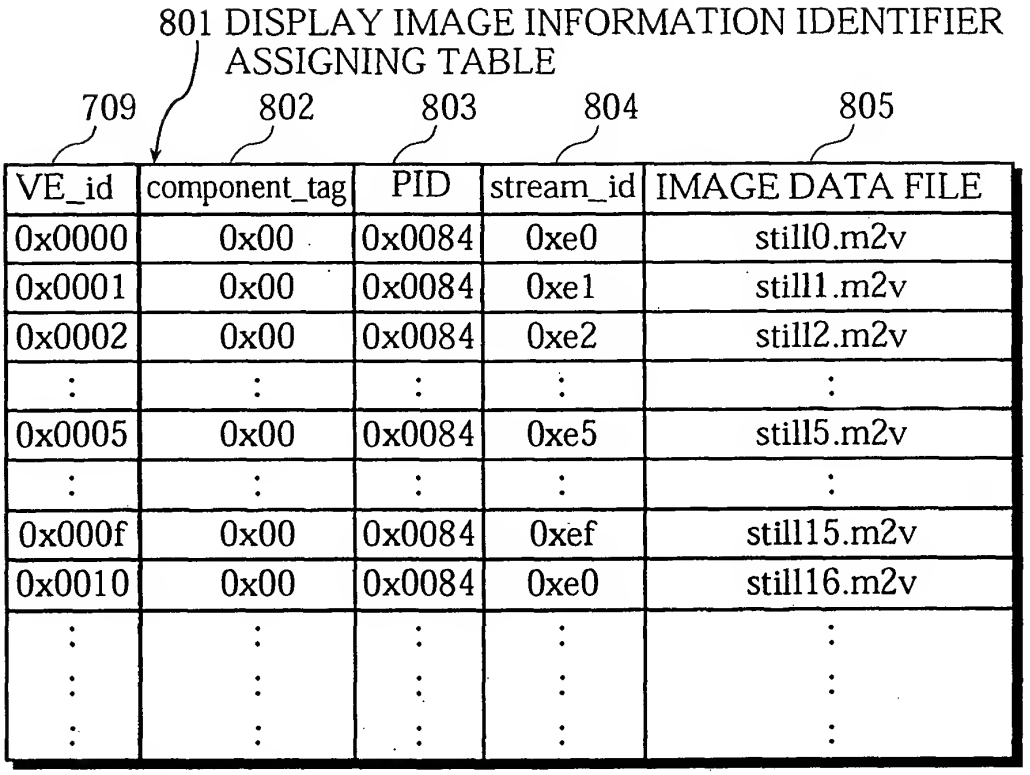
Bitrate	6000000bps
original_network_id	0x0001
transport_stream_id	0x0001
service_id	0x0001
event_id	0x0001
PMT_PID	0x0080
PCR_PID	0x0081
NE_component_pid	0x0082
VE_information_component_pid	0x0083
VE_component_pid	0x0084

Fig. 58

701 CONTENT IDENTIFIER ASSIGNING TABLE

702 CONTENT NUMBER	703 orig_nw_id	704 ts_id	705 VE_svc_id	706 VE_event_id	709 VE_id	711 AE_svc_id	712 AE_event_id	713 AE_id	707 NE_svc_id	708 NE_event_id	710 NE_id
0	0x0001	0x0001	0x0001	0x0001	0x0000	–	–	–	0x0001	0x0001	0x0000
1	0x0001	0x0001	0x0001	0x0001	0x0001	–	–	–	0x0001	0x0001	0x0001
2	0x0001	0x0001	0x0001	0x0001	0x0002	–	–	–	0x0001	0x0001	0x0002
:	:	:	:	:	:	:	:	:	:	:	:
5	0x0001	0x0001	0x0001	0x0001	0x0005	–	–	–	0x0001	0x0001	0x0005
:	:	:	:	:	:	:	:	:	:	:	:

Fig. 59



VE_id	component_tag	PID	stream_id	IMAGE DATA FILE
0x0000	0x00	0x0084	0xe0	still0.m2v
0x0001	0x00	0x0084	0xe1	still1.m2v
0x0002	0x00	0x0084	0xe2	still2.m2v
:	:	:	:	:
0x0005	0x00	0x0084	0xe5	still5.m2v
:	:	:	:	:
0x000f	0x00	0x0084	0xef	still15.m2v
0x0010	0x00	0x0084	0xe0	still16.m2v
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:

Fig. 60

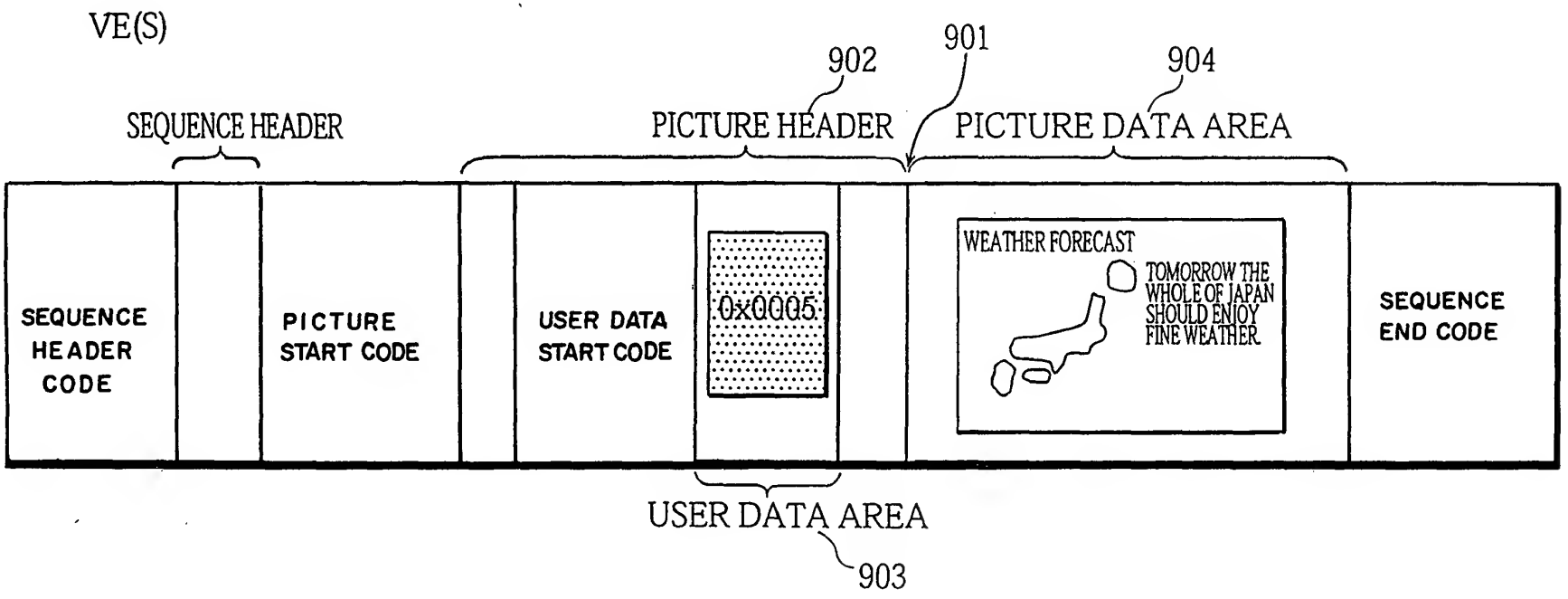

VE(S)
902
901
904
SEQUENCE HEADER
PICTURE HEADER
PICTURE DATA AREA
SEQUENCE HEADER CODE
PICTURE START CODE
USER DATA START CODE
0x0005
WEATHER FORECAST
TOMORROW THE WHOLE OF JAPAN SHOULD ENJOY FINE WEATHER.
SEQUENCE END CODE
USER DATA AREA
903

Fig. 61

NVT(5)

1001

Object Definition Table : 1002

Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	400	300	2	6	7
1	Button	400	400	3	8	9

Handler Definition Table : 1003

Index	Script
2	goto_content(index 4)
3	goto_content(index 5)

Hyperlink Table : 1004

Index	orig_nw_id	ts_id	VE_service_id	VE_event_id	VE_id	AE_service_id	AE_event_id	AE_id	NE_service_id	NE_event_id	NE_id
4	—	—	—	—	0x0001	—	—	—	—	—	0x0001
5	—	—	—	—	0x0002	—	—	—	—	—	0x0002

Bitmap Table :

Index	Bitmap Data
6	TOKYO
7	TOKYO
8	OSAKA
9	OSAKA

1005

Fig. 62

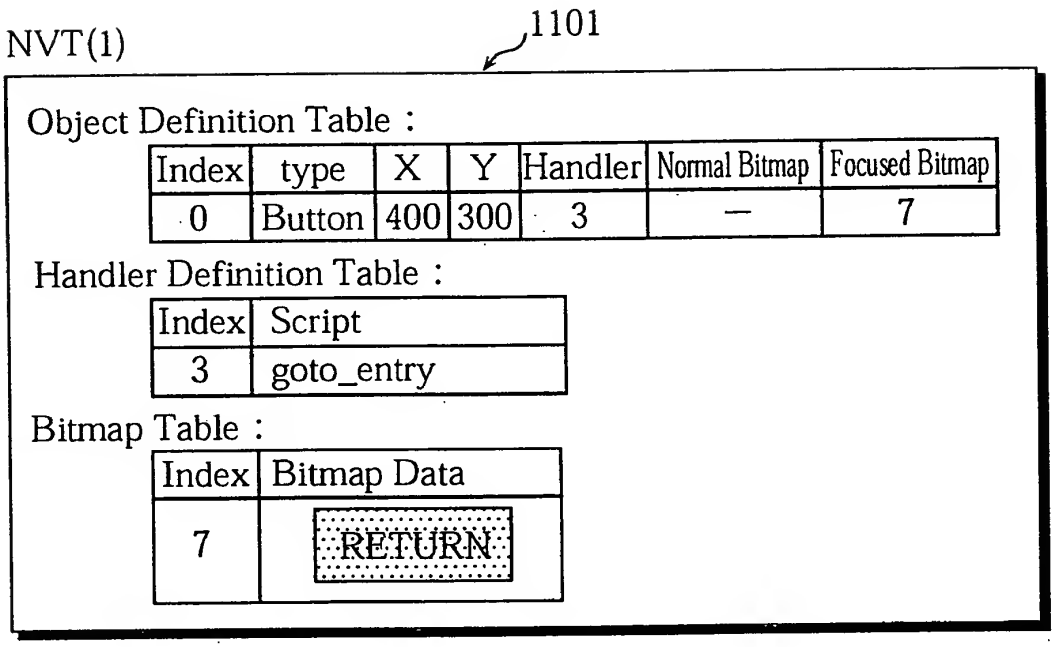

NVT(1)
1101
Object Definition Table :
Index
type
X
Y
Handler
Normal Bitmap
Focused Bitmap
0
Button
400
300
3
—
7
Handler Definition Table :
Index
Script
3
goto_entry
Bitmap Table :
Index
Bitmap Data
7
RETURN

Fig. 63A

VET(5) 1201

first_pts	112500
last_pts	112500
stream_id	0xe5
component_tag	0x00

Fig. 63B

VET(1) 1202

first_pts	45000
last_pts	45000
stream_id	0xe1
component_tag	0x00

Fig. 63C

VET(15) 1203

first_pts	360000
last_pts	360000
stream_id	0xef
component_tag	0x00

FIG. 64A

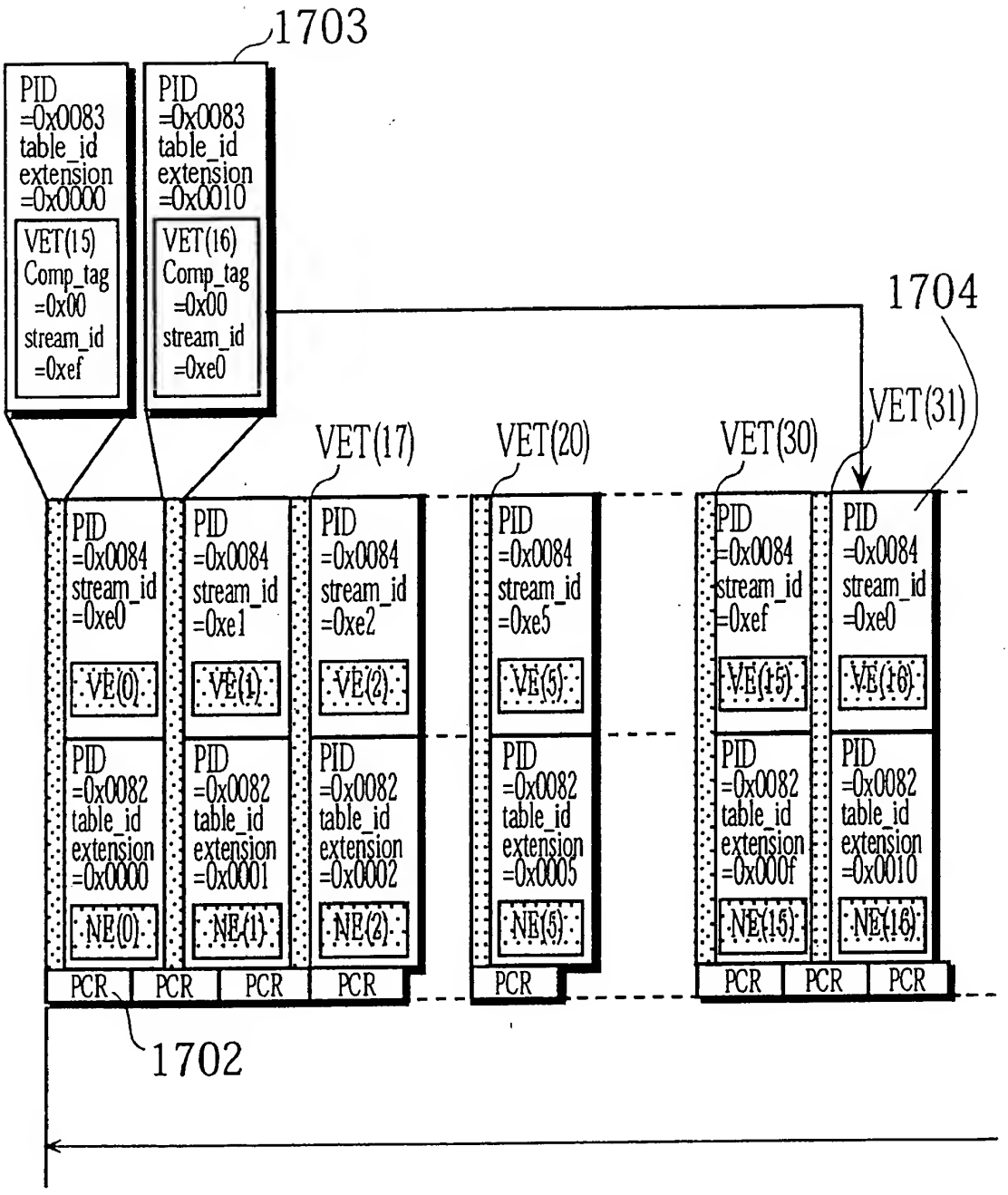

1703
PID =0x0083 table_id extension =0x0000
VET(15) Comp_tag =0x00 stream_id =0xef
PID =0x0083 table_id extension =0x0010
VET(16) Comp_tag =0x00 stream_id =0xe0
1704
VET(31)
VET(17)
VET(20)
VET(30)
PID =0x0084 stream_id =0xe0
VE(0)
PID =0x0082 table_id extension =0x0000
NE(0)
PID =0x0084 stream_id =0xe1
VE(1)
PID =0x0082 table_id extension =0x0001
NE(1)
PID =0x0084 stream_id =0xe2
VE(2)
PID =0x0082 table_id extension =0x0002
NE(2)
PID =0x0084 stream_id =0xe5
VE(5)
PID =0x0082 table_id extension =0x0005
NE(5)
PID =0x0084 stream_id =0xef
VE(15)
PID =0x0082 table_id extension =0x000f
NE(15)
PID =0x0084 stream_id =0xe0
VE(16)
PID =0x0082 table_id extension =0x0010
NE(16)
PCR
1702

FIG. 64B

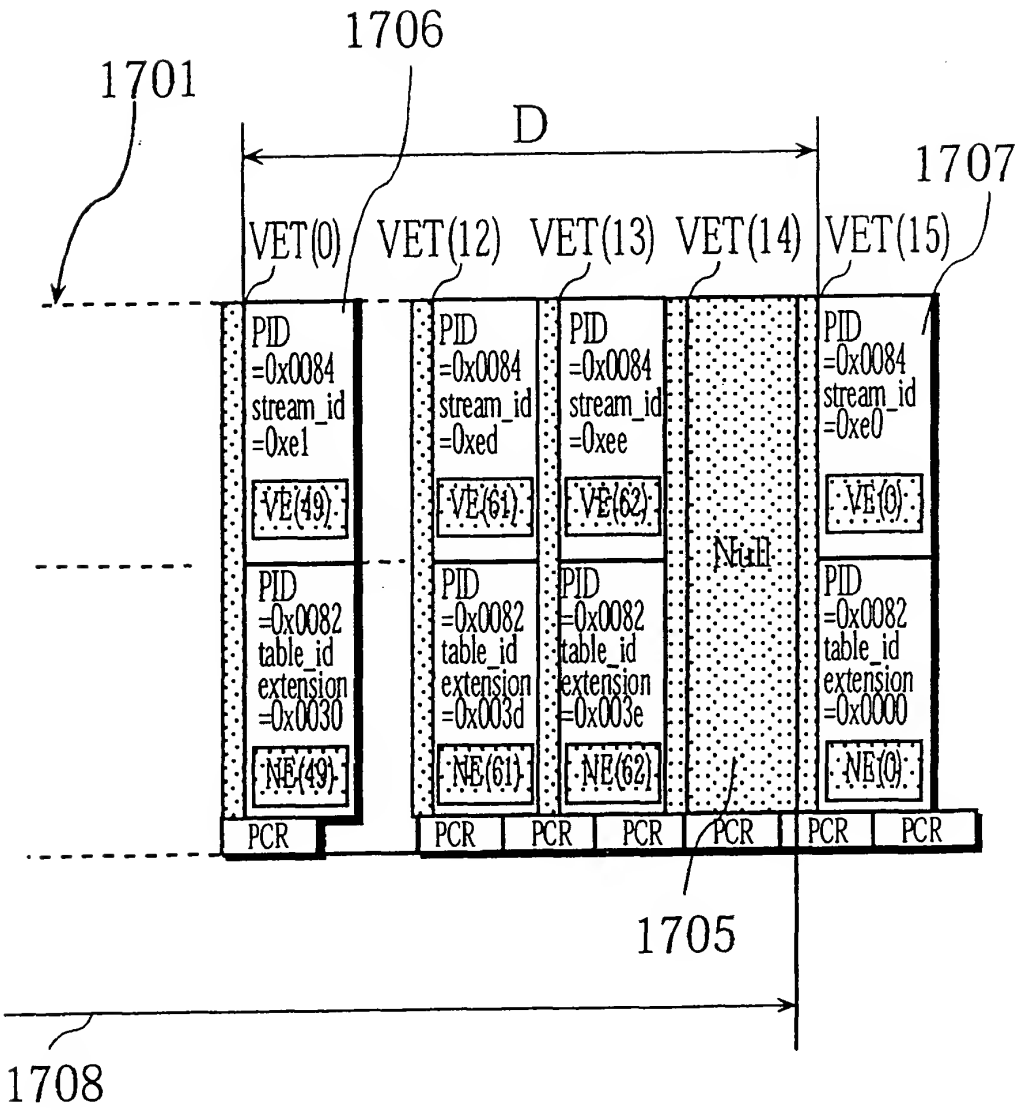

1706
1701
D
1707
VET(0)
VET(12)
VET(13)
VET(14)
VET(15)
PID =0x0084 stream_id =0xe1
PID =0x0084 stream_id =0xed
PID =0x0084 stream_id =0xee
PID =0x0084 stream_id =0xe0
VE(49)
VE(61)
VE(62)
VE(0)
Null
PID =0x0082 table_id extension =0x0030
PID =0x0082 table_id extension =0x003d
PID =0x0082 table_id extension =0x003e
PID =0x0082 table_id extension =0x0000
NE(49)
NE(61)
NE(62)
NE(0)
PCR
PCR
PCR
PCR
PCR
PCR
PCR
1705
1708

FIG. 65A

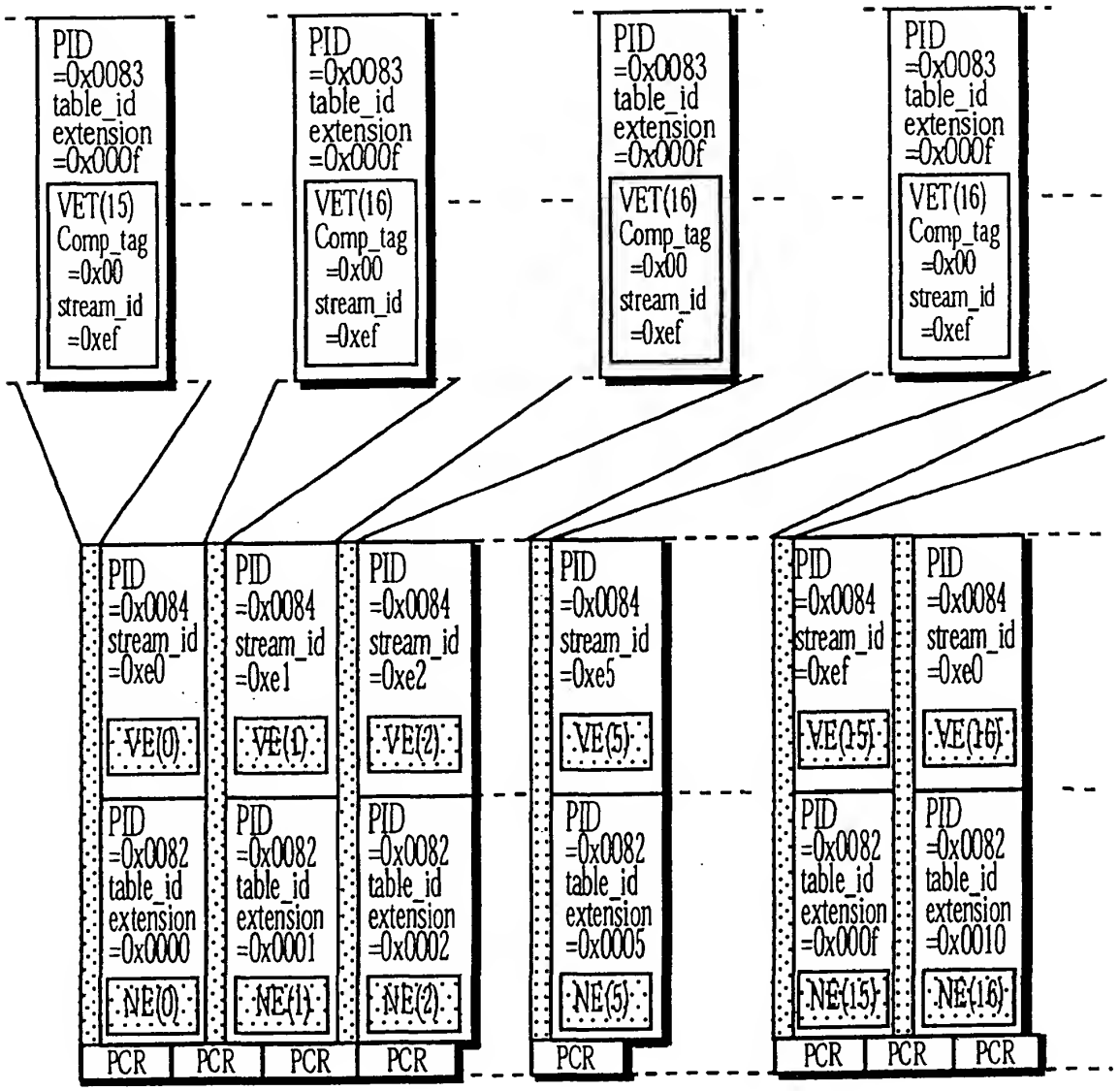

PID
=0x0083
table_id
extension
=0x000f
VET(15)
Comp_tag
=0x00
stream_id
=0xef
PID
=0x0083
table_id
extension
=0x000f
VET(16)
Comp_tag
=0x00
stream_id
=0xef
PID
=0x0083
table_id
extension
=0x000f
VET(16)
Comp_tag
=0x00
stream_id
=0xef
PID
=0x0083
table_id
extension
=0x000f
VET(16)
Comp_tag
=0x00
stream_id
=0xef
PID
=0x0084
stream_id
=0xe0
VE(0)
PID
=0x0084
stream_id
=0xe1
VE(1)
PID
=0x0084
stream_id
=0xe2
VE(2)
PID
=0x0084
stream_id
=0xe5
VE(5)
PID
=0x0084
stream_id
=0xef
VE(15)
PID
=0x0084
stream_id
=0xe0
VE(16)
PID
=0x0082
table_id
extension
=0x0000
NE(0)
PID
=0x0082
table_id
extension
=0x0001
NE(1)
PID
=0x0082
table_id
extension
=0x0002
NE(2)
PID
=0x0082
table_id
extension
=0x0005
NE(5)
PID
=0x0082
table_id
extension
=0x000f
NE(15)
PID
=0x0082
table_id
extension
=0x0010
NE(16)
PCR
PCR
PCR
PCR
PCR
PCR
PCR
PCR

FIG. 65B

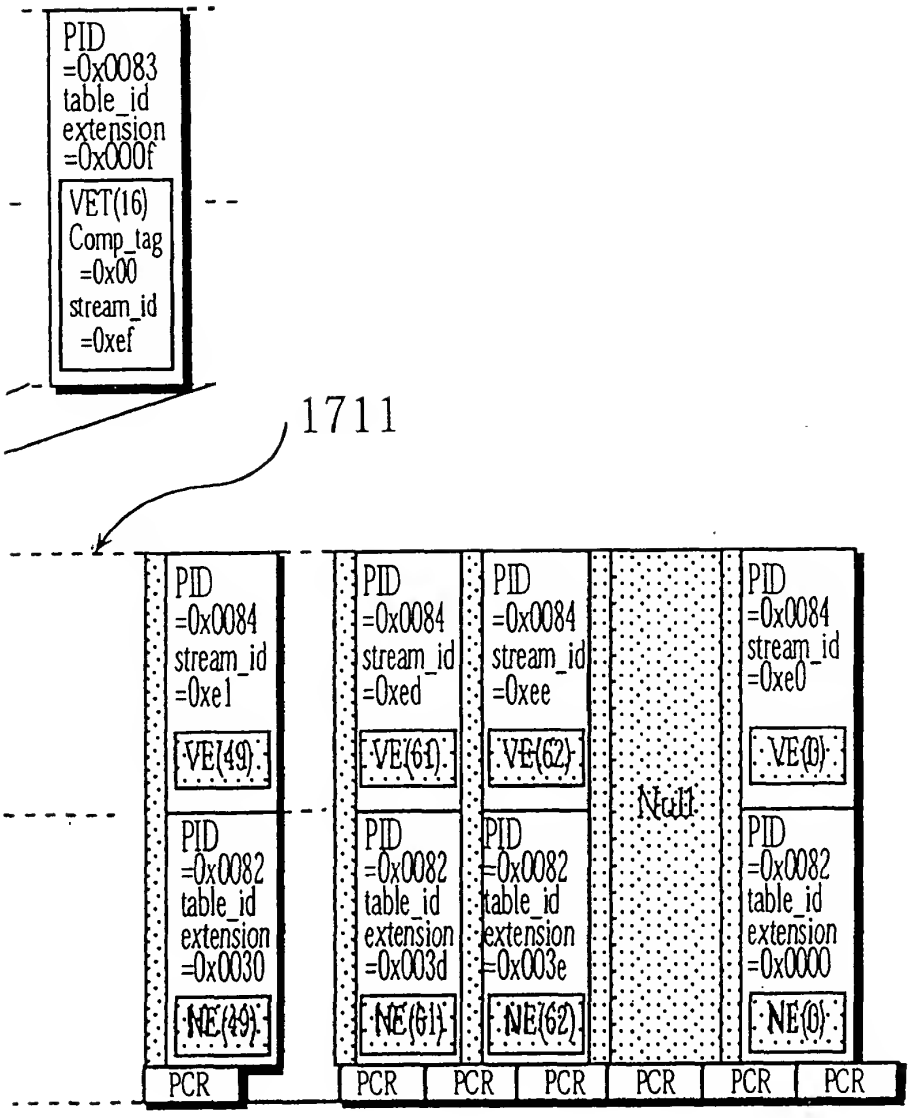

PID
=0x0083
table_id
extension
=0x000f
VET(16)
Comp_tag
=0x00
stream_id
=0xef
1711
PID
=0x0084
stream_id
=0xe1
VE(49)
PID
=0x0082
table_id
extension
=0x0030
NE(49)
PID
=0x0084
stream_id
=0xed
VE(61)
PID
=0x0082
table_id
extension
=0x003d
NE(61)
PID
=0x0084
stream_id
=0xee
VE(62)
PID
=0x0082
table_id
extension
=0x003e
NE(62)
Null
PID
=0x0084
stream_id
=0xe0
VE(0)
PID
=0x0082
table_id
extension
=0x0000
NE(0)
PCR
PCR
PCR
PCR
PCR
PCR
PCR

Fig. 66A

Network Information Table 1301

table_id=0x40

network_id=0x0001

original_network_id	transport_stream_id	descriptor
⋮	⋮	⋮
0x0001	0x0001	TRANSFER PREFACE
⋮	⋮	⋮

Fig. 66C

Event Information Table 1303

table_id=0x4c

service_id=0x0001

event_id	descriptor
⋮	⋮
0x0001	EVENT NAME AND OTHER INFORMATION
⋮	⋮

Fig. 66B

Service Description Table 1302

table_id=0x42

transport_stream_id=0x0001

service_id	descriptor
⋮	⋮
0x0001	SERVICE NAME AND OTHER INFORMATION
⋮	⋮

Fig. 67

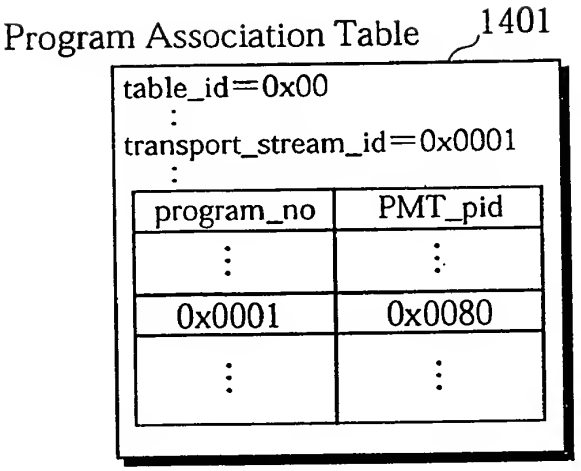

Program Association Table
1401
table_id=0x00
transport_stream_id=0x0001
program_no
PMT_pid
0x0001
0x0080

Fig. 68

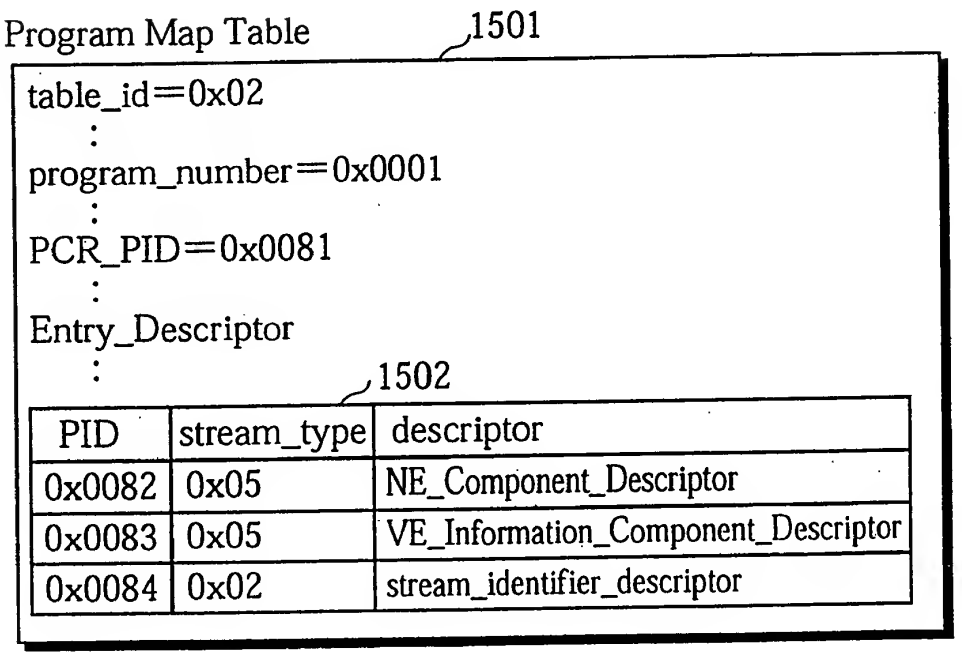

Program Map Table
1501
table_id=0x02
program_number=0x0001
PCR_PID=0x0081
Entry_Descriptor
1502
PID
stream_type
descriptor
0x0082
0x05
NE_Component_Descriptor
0x0083
0x05
VE_Information_Component_Descriptor
0x0084
0x02
stream_identifier_descriptor

Fig. 69A

Entry_Descriptor

descriptor_tag 0x98

:

entry_VE_id	entry_AE_id	entry_NE_id
0x0005	——	0x0005

Fig. 69B

NE_Component_Descriptor

descriptor_tag 0x99

:

Fig. 69C

VE_Information_Component_Descriptor

descriptor_tag 0x9a

:

Fig. 69D

stream_identifier_descriptor

descriptor_tag 0x52

:

component_tag 0x00

FIG. 70A

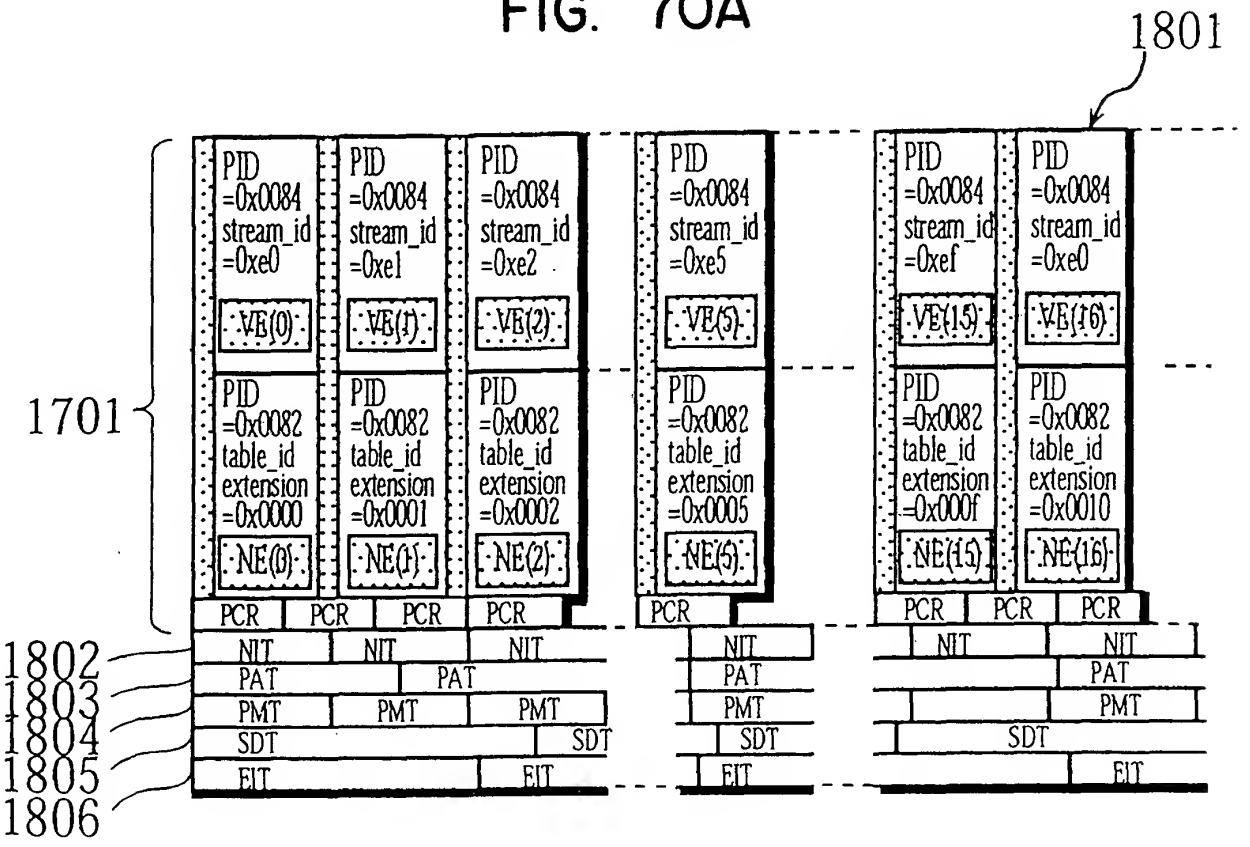

1801
1701
PID =0x0084 stream_id =0xe0
VE(0)
PID =0x0084 stream_id =0xe1
VE(1)
PID =0x0084 stream_id =0xe2
VE(2)
PID =0x0084 stream_id =0xe5
VE(5)
PID =0x0084 stream_id =0xef
VE(15)
PID =0x0084 stream_id =0xe0
VE(16)
PID =0x0082 table_id extension =0x0000
NE(0)
PID =0x0082 table_id extension =0x0001
NE(1)
PID =0x0082 table_id extension =0x0002
NE(2)
PID =0x0082 table_id extension =0x0005
NE(5)
PID =0x0082 table_id extension =0x000f
NE(15)
PID =0x0082 table_id extension =0x0010
NE(16)
PCR
NIT
PAT
PMT
SDT
EIT
1802
1803
1804
1805
1806

FIG. 70B

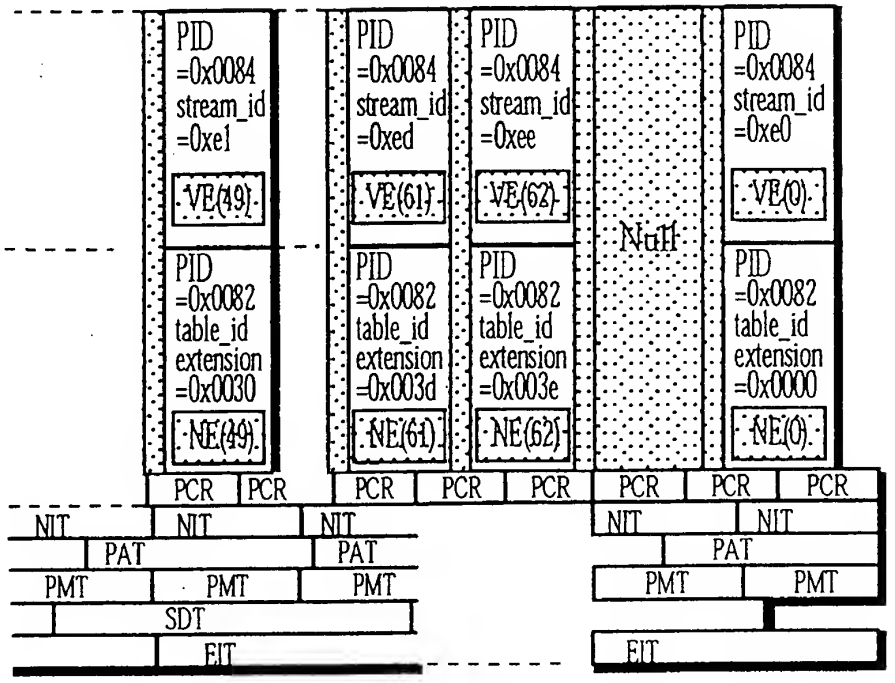

PID
=0x0084
stream_id
=0xe1
VE(49)
PID
=0x0082
table_id
extension
=0x0030
NE(49)
PID
=0x0084
stream_id
=0xed
VE(61)
PID
=0x0082
table_id
extension
=0x003d
NE(61)
PID
=0x0084
stream_id
=0xee
VE(62)
PID
=0x0082
table_id
extension
=0x003e
NE(62)
Null
PID
=0x0084
stream_id
=0xe0
VE(0)
PID
=0x0082
table_id
extension
=0x0000
NE(0)
PCR
NIT
PAT
PMT
SDT
EIT

Fig. 71

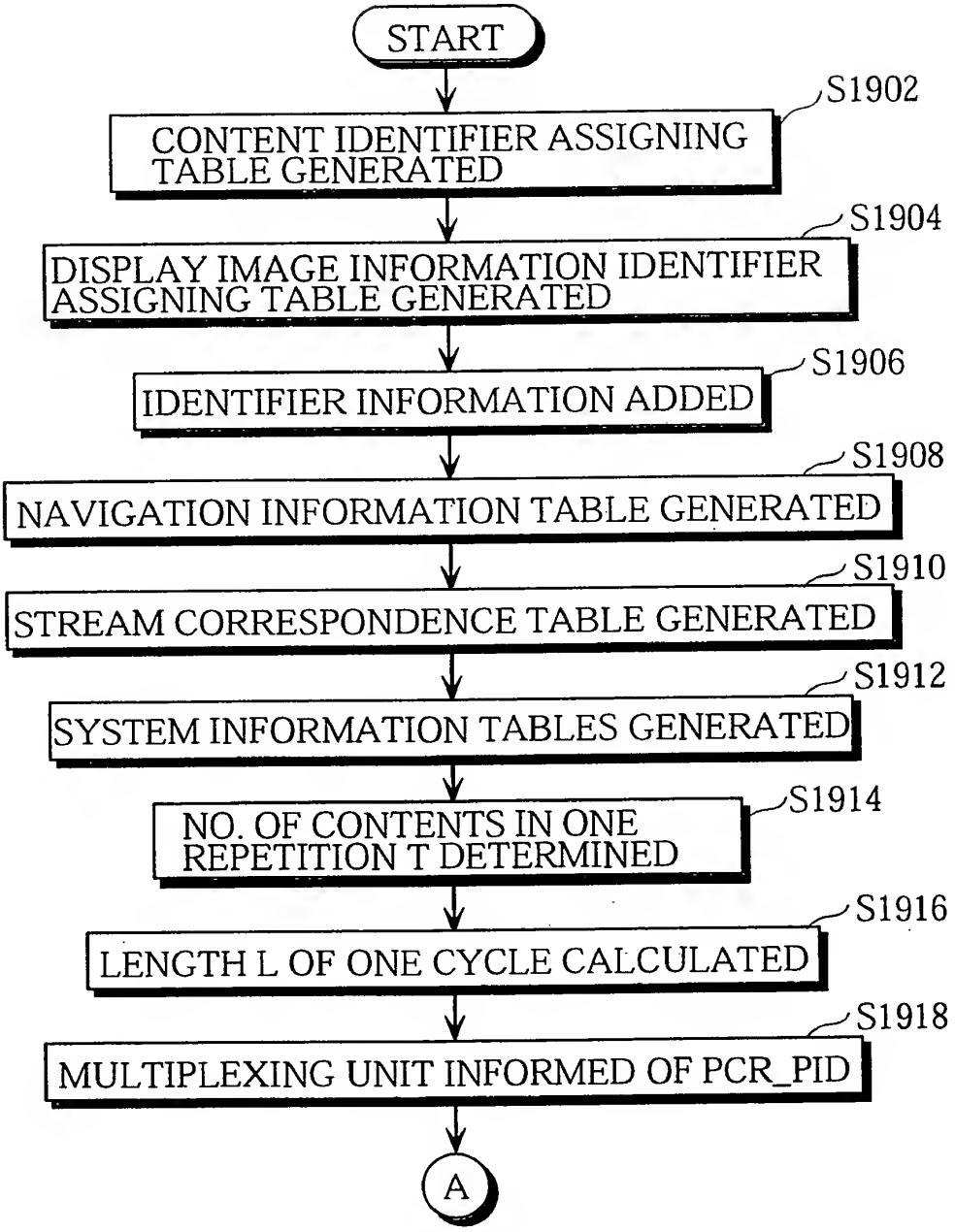

START
S1902
CONTENT IDENTIFIER ASSIGNING TABLE GENERATED
S1904
DISPLAY IMAGE INFORMATION IDENTIFIER ASSIGNING TABLE GENERATED
S1906
IDENTIFIER INFORMATION ADDED
S1908
NAVIGATION INFORMATION TABLE GENERATED
S1910
STREAM CORRESPONDENCE TABLE GENERATED
S1912
SYSTEM INFORMATION TABLES GENERATED
S1914
NO. OF CONTENTS IN ONE REPETITION T DETERMINED
S1916
LENGTH L OF ONE CYCLE CALCULATED
S1918
MULTIPLEXING UNIT INFORMED OF PCR_PID
A

Fig. 72

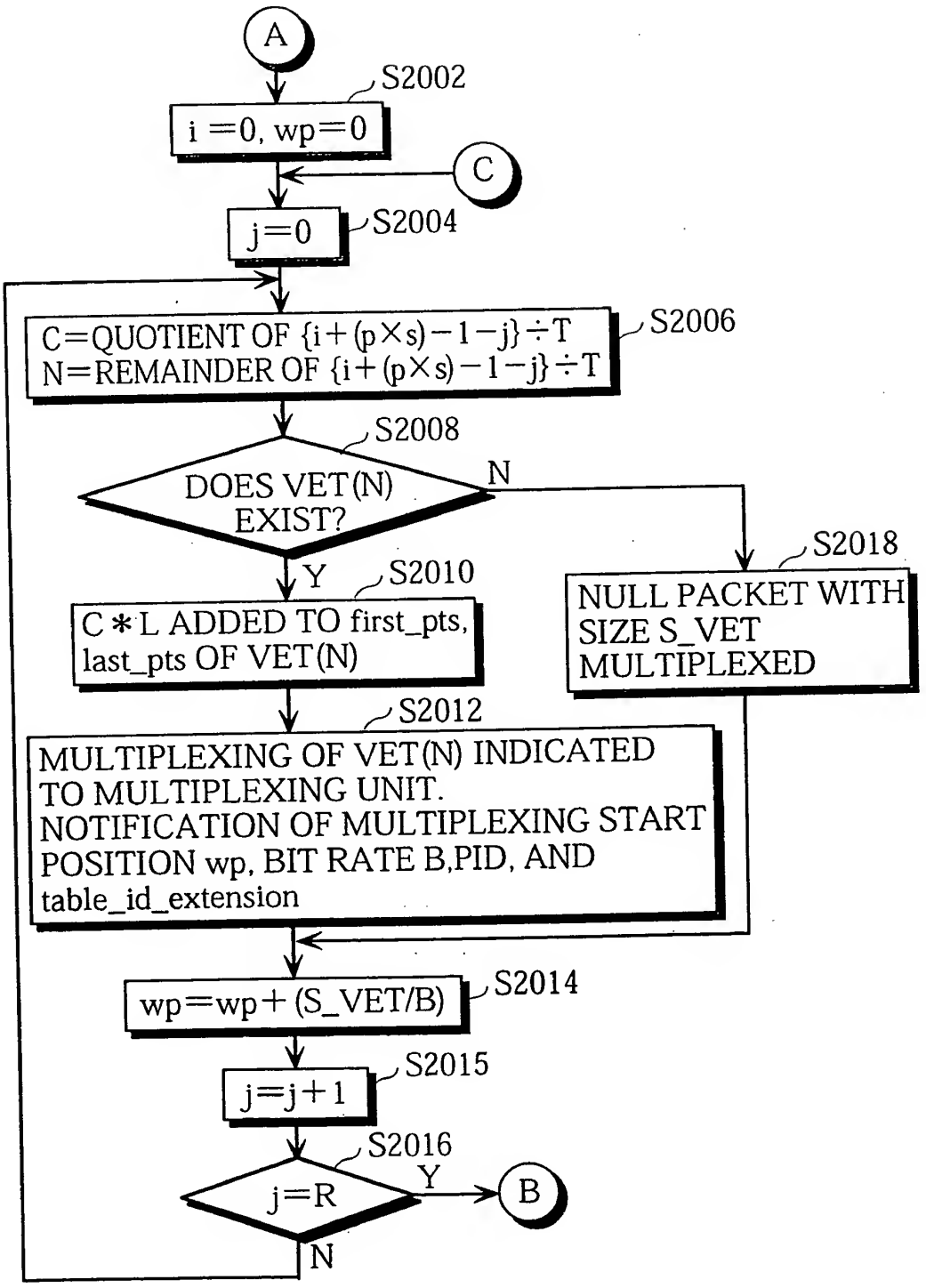

A
S2002
i =0, wp=0
C
j=0
S2004
C=QUOTIENT OF {i+(p×s)−1−j}÷T
N=REMAINDER OF {i+(p×s)−1−j}÷T
S2006
S2008
DOES VET(N) EXIST?
N
Y
S2010
C*L ADDED TO first_pts, last_pts OF VET(N)
S2018
NULL PACKET WITH SIZE S_VET MULTIPLEXED
S2012
MULTIPLEXING OF VET(N) INDICATED TO MULTIPLEXING UNIT.
NOTIFICATION OF MULTIPLEXING START POSITION wp, BIT RATE B,PID, AND table_id_extension
wp=wp+(S_VET/B)
S2014
j=j+1
S2015
S2016
j=R
Y
B
N

Fig. 73

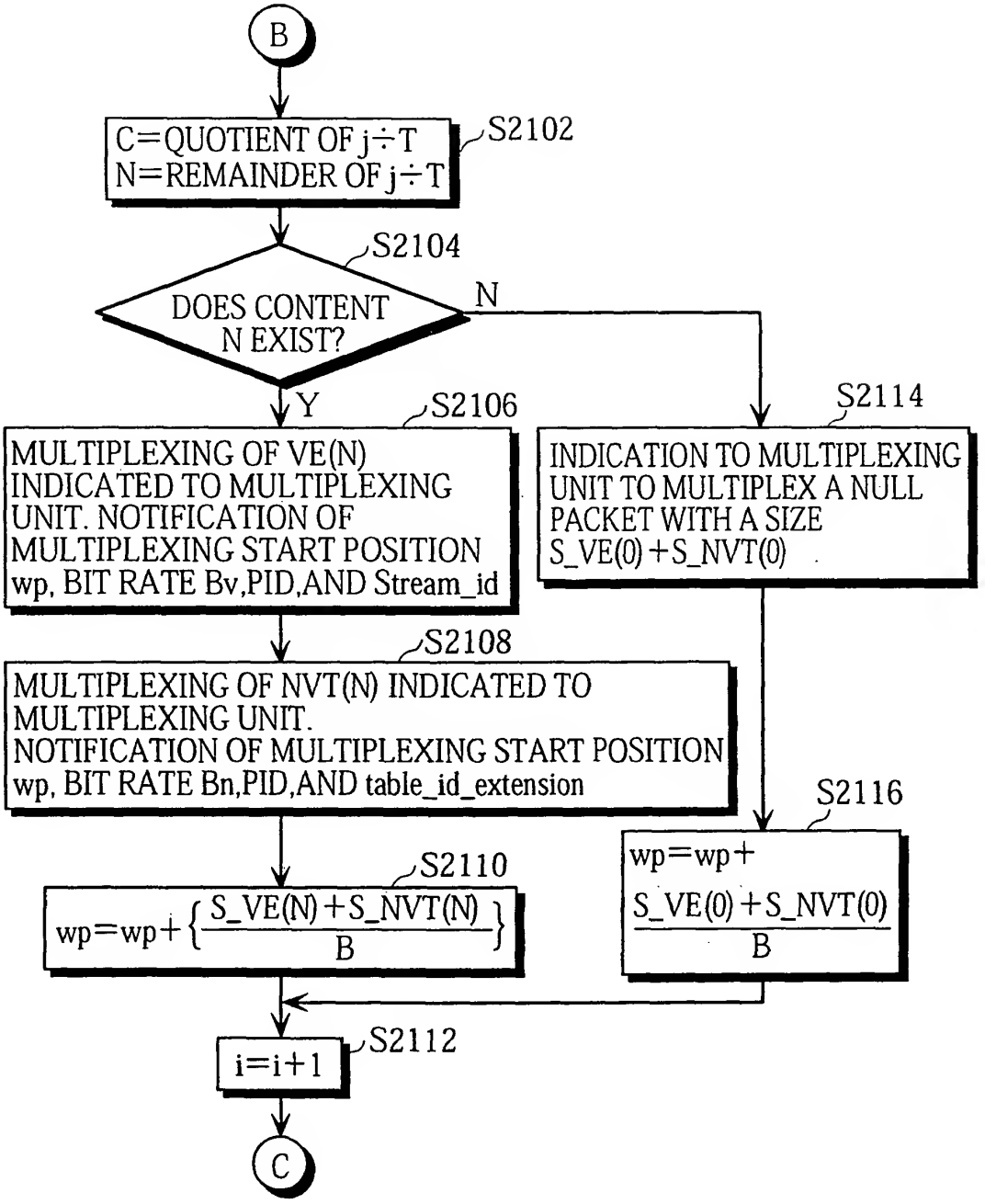

B
C=QUOTIENT OF j÷T
N=REMAINDER OF j÷T
S2102
S2104
DOES CONTENT N EXIST?
N
Y
S2106
MULTIPLEXING OF VE(N) INDICATED TO MULTIPLEXING UNIT. NOTIFICATION OF MULTIPLEXING START POSITION wp, BIT RATE Bv,PID,AND Stream_id
S2114
INDICATION TO MULTIPLEXING UNIT TO MULTIPLEX A NULL PACKET WITH A SIZE S_VE(0)+S_NVT(0)
S2108
MULTIPLEXING OF NVT(N) INDICATED TO MULTIPLEXING UNIT. NOTIFICATION OF MULTIPLEXING START POSITION wp, BIT RATE Bn,PID,AND table_id_extension
S2116
S2110
wp=wp+{(S_VE(N)+S_NVT(N))/B}
wp=wp+(S_VE(0)+S_NVT(0))/B
S2112
i=i+1
C

Fig. 74A

2201

2202 FILTER IDENTIFICATION NUMBER	2203 START/STOP	2204 PID	2205 stream_id	2206 table_id_extension	2207 OUTPUTTED DESTINATION
0	STOP	–	–		AV DECODER UNIT
1	STOP	–	–		AV DECODER UNIT
2	START	0x0083		0x0005	STREAM CORRESPONDENCE INFORMATION TABLE STORAGE UNIT
3	START	0x0082		0x0005	NAVIGATION INFORMATION TABLE STORAGE UNIT

Fig. 74B

2208

FILTER IDENTIFICATION NUMBER	START/STOP	PID	stream_id	table_id_extension	OUTPUTTED DESTINATION
0	START	0x0084	0xe5		AV DECODER UNIT
1	STOP	–	–		AV DECODER UNIT
2	STOP	–		–	STREAM CORRESPONDENCE INFORMATION TABLE STORAGE UNIT
3	START	0x0082		0x0005	NAVIGATION INFORMATION TABLE STORAGE UNIT

Fig. 75A

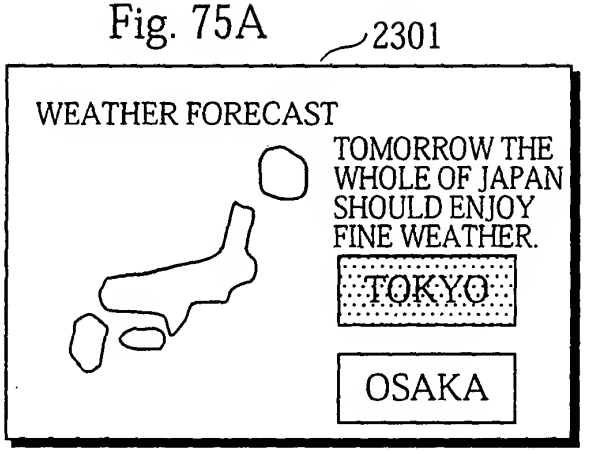


Fig. 75B

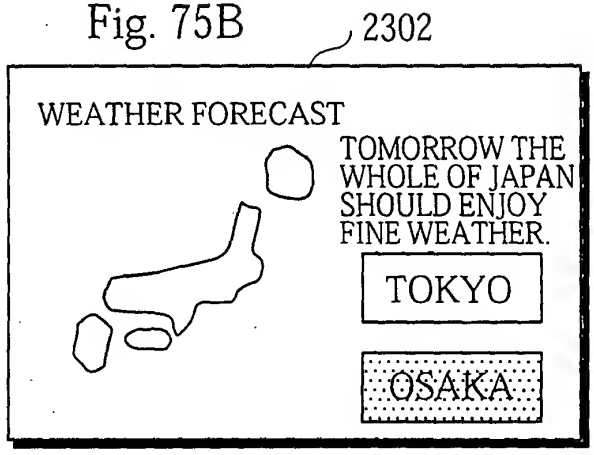


Fig. 75C

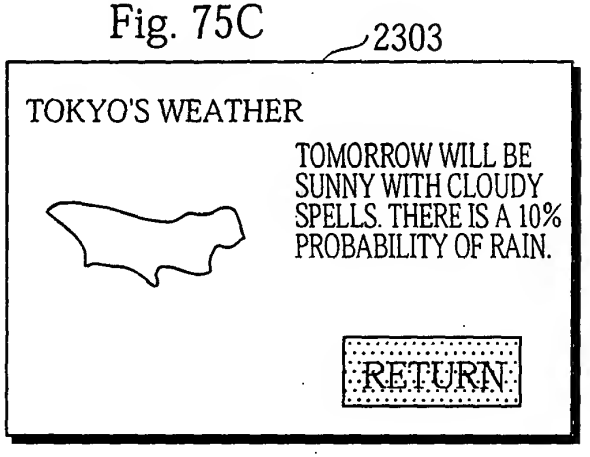


Fig. 76

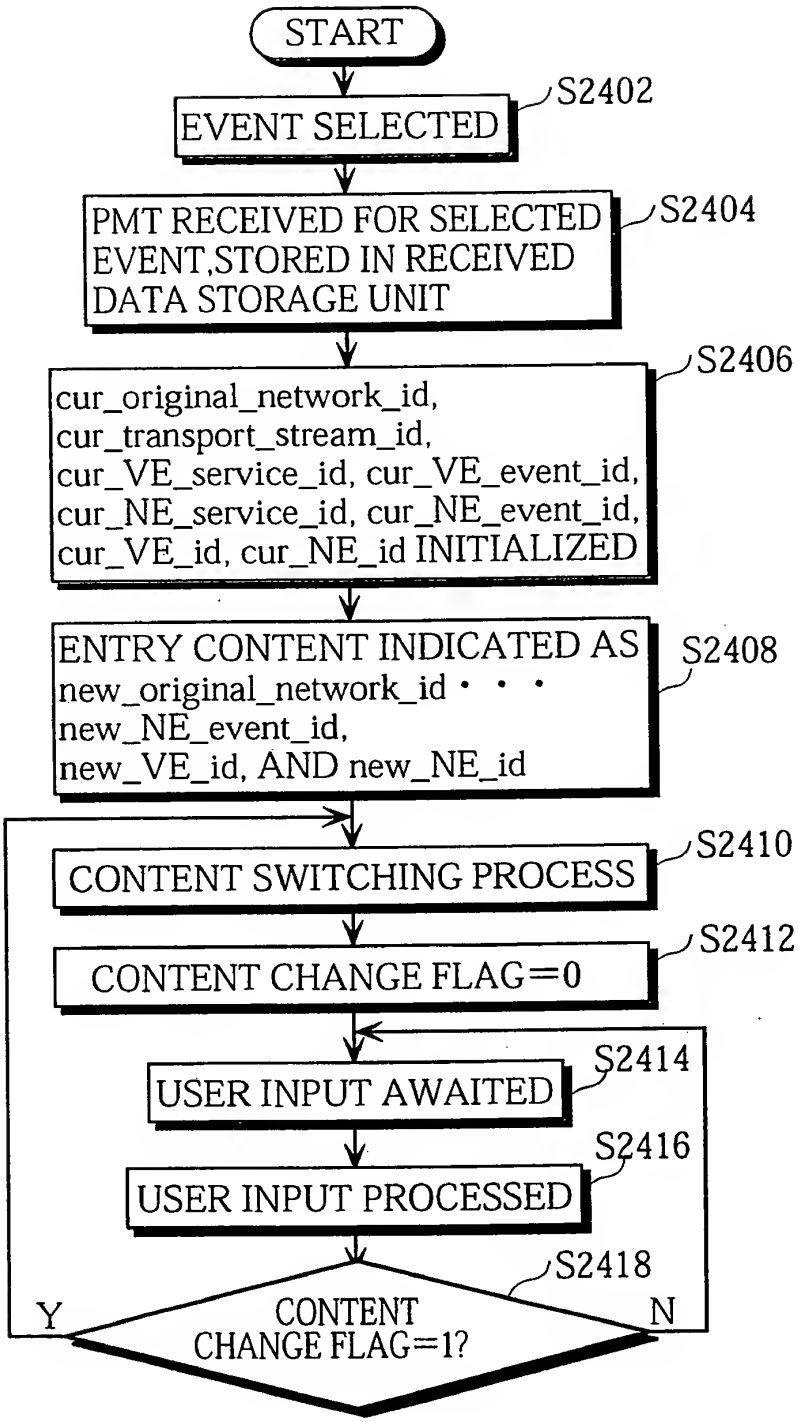

START
EVENT SELECTED
S2402
PMT RECEIVED FOR SELECTED EVENT,STORED IN RECEIVED DATA STORAGE UNIT
S2404
cur_original_network_id, cur_transport_stream_id, cur_VE_service_id, cur_VE_event_id, cur_NE_service_id, cur_NE_event_id, cur_VE_id, cur_NE_id INITIALIZED
S2406
ENTRY CONTENT INDICATED AS new_original_network_id・・・ new_NE_event_id, new_VE_id, AND new_NE_id
S2408
CONTENT SWITCHING PROCESS
S2410
CONTENT CHANGE FLAG=0
S2412
USER INPUT AWAITED
S2414
USER INPUT PROCESSED
S2416
CONTENT CHANGE FLAG=1?
S2418
Y
N

Fig. 77

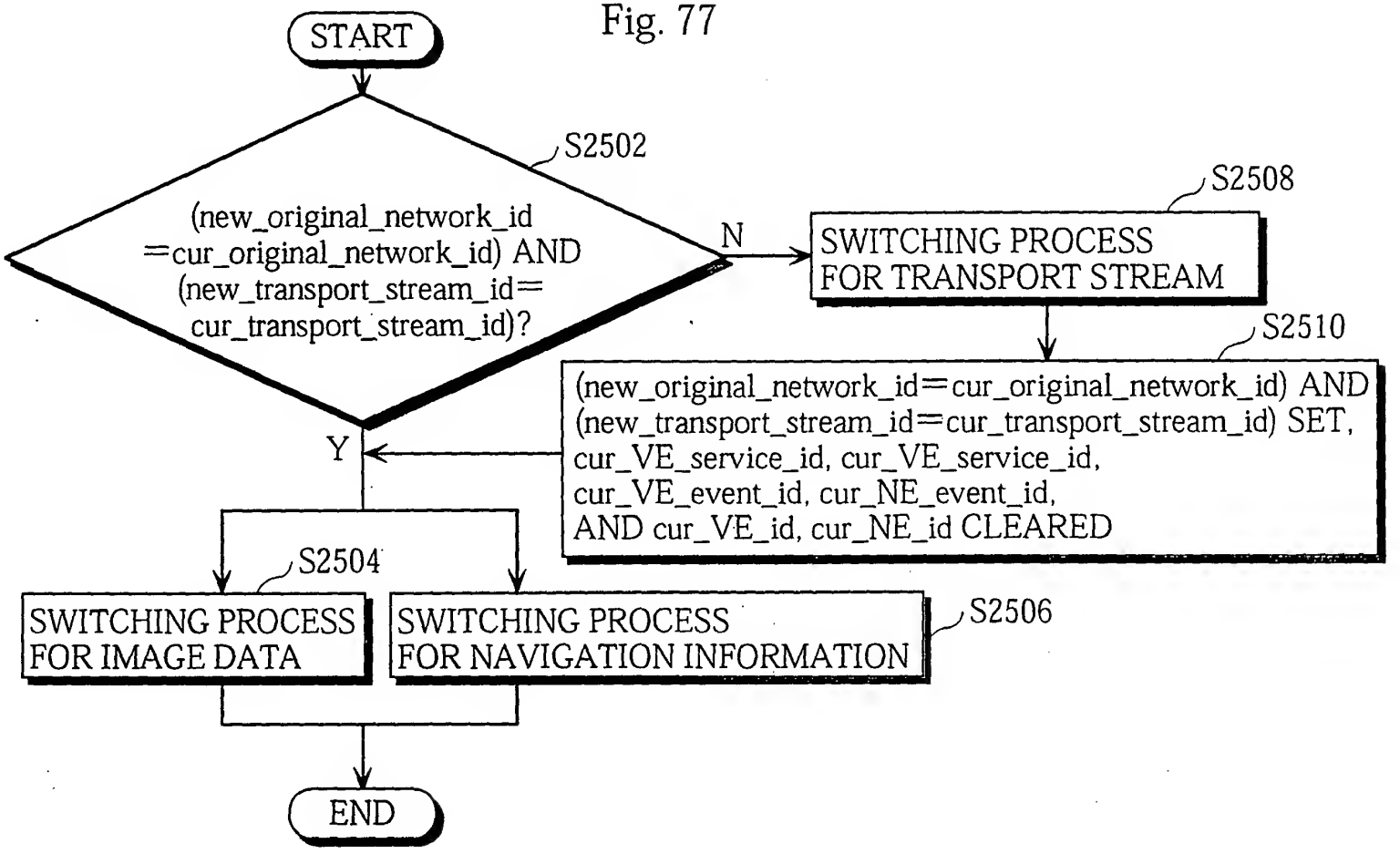

START
S2502
(new_original_network_id =cur_original_network_id) AND (new_transport_stream_id= cur_transport_stream_id)?
N
S2508
SWITCHING PROCESS FOR TRANSPORT STREAM
S2510
(new_original_network_id=cur_original_network_id) AND (new_transport_stream_id=cur_transport_stream_id) SET, cur_VE_service_id, cur_VE_service_id, cur_VE_event_id, cur_NE_event_id, AND cur_VE_id, cur_NE_id CLEARED
Y
S2504
SWITCHING PROCESS FOR IMAGE DATA
SWITCHING PROCESS FOR NAVIGATION INFORMATION
S2506
END

Fig. 78

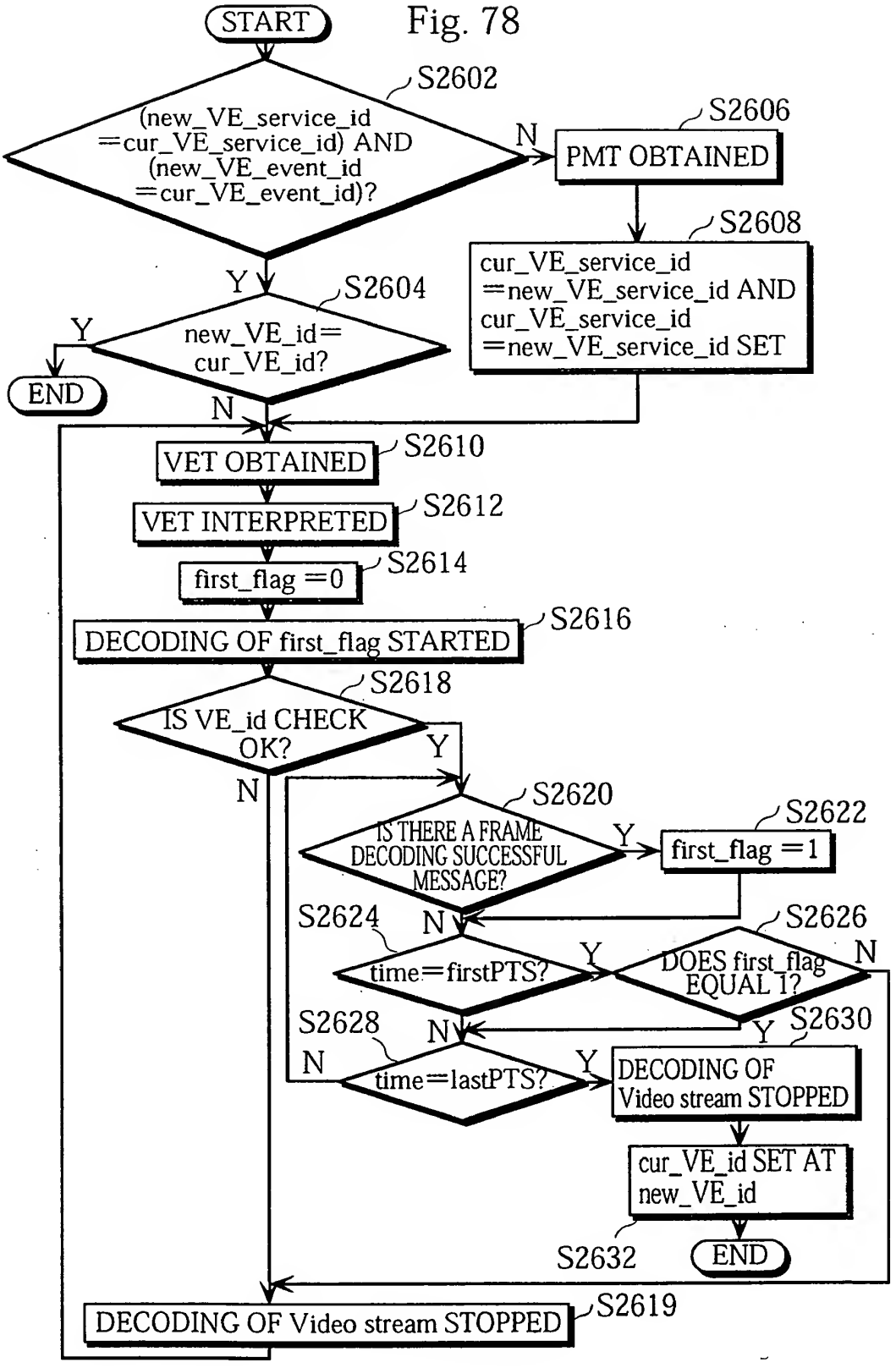

START
S2602
(new_VE_service_id =cur_VE_service_id) AND (new_VE_event_id =cur_VE_event_id)?
N
S2606
PMT OBTAINED
S2608
cur_VE_service_id =new_VE_service_id AND cur_VE_service_id =new_VE_service_id SET
Y
S2604
new_VE_id= cur_VE_id?
Y
END
N
VET OBTAINED
S2610
VET INTERPRETED
S2612
first_flag =0
S2614
DECODING OF first_flag STARTED
S2616
IS VE_id CHECK OK?
S2618
Y
N
S2620
IS THERE A FRAME DECODING SUCCESSFUL MESSAGE?
Y
S2622
first_flag =1
S2624
N
time=firstPTS?
Y
S2626
DOES first_flag EQUAL 1?
N
Y
S2628
N
time=lastPTS?
Y
S2630
DECODING OF Video stream STOPPED
cur_VE_id SET AT new_VE_id
S2632
END
DECODING OF Video stream STOPPED
S2619

Fig. 79

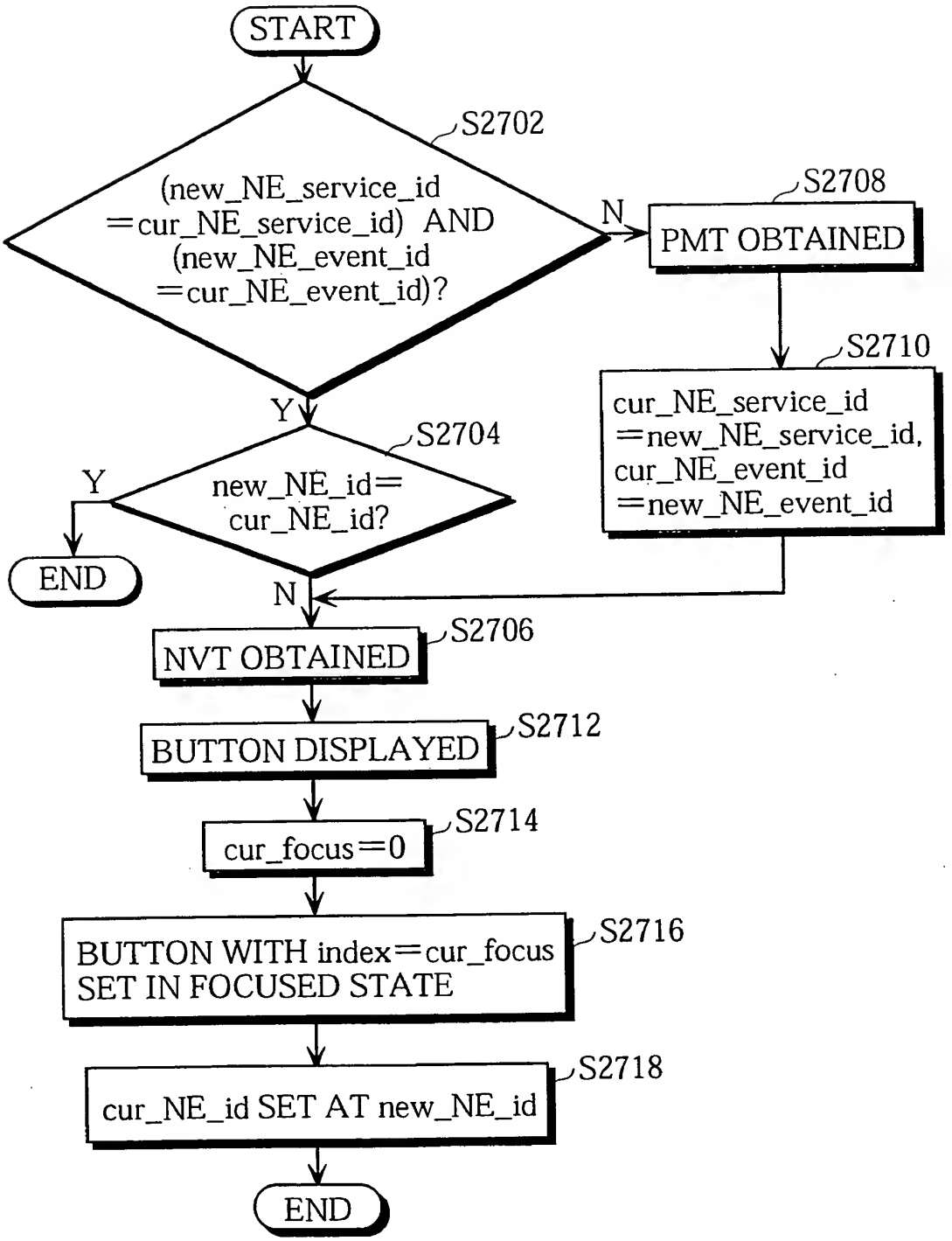

START
S2702
(new_NE_service_id =cur_NE_service_id) AND (new_NE_event_id =cur_NE_event_id)?
N
S2708
PMT OBTAINED
S2710
cur_NE_service_id =new_NE_service_id, cur_NE_event_id =new_NE_event_id
Y
S2704
new_NE_id= cur_NE_id?
Y
END
N
S2706
NVT OBTAINED
S2712
BUTTON DISPLAYED
S2714
cur_focus=0
S2716
BUTTON WITH index=cur_focus SET IN FOCUSED STATE
S2718
cur_NE_id SET AT new_NE_id
END

Fig. 80

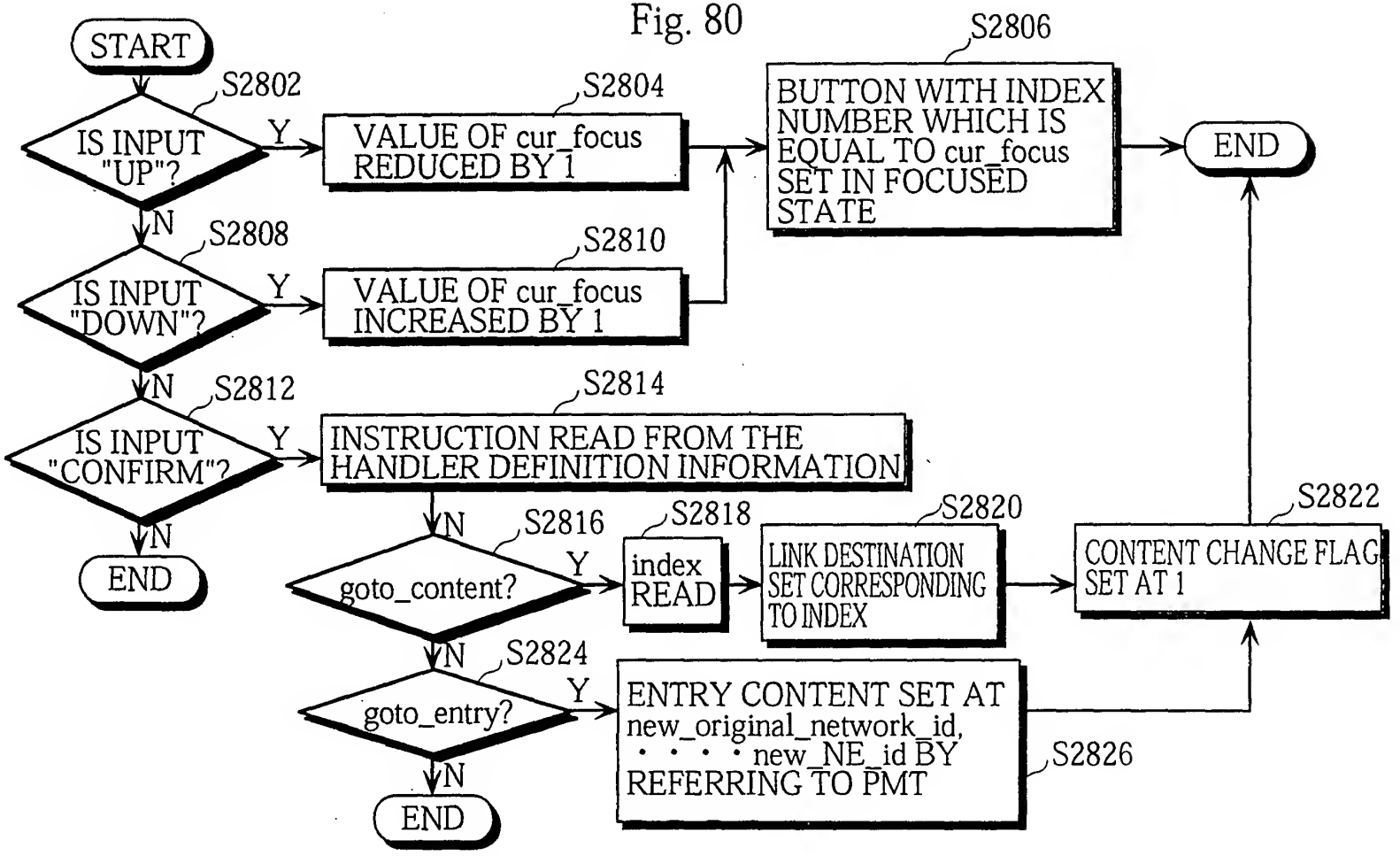

START
S2802
IS INPUT "UP"?
Y
S2804
VALUE OF cur_focus REDUCED BY 1
S2806
BUTTON WITH INDEX NUMBER WHICH IS EQUAL TO cur_focus SET IN FOCUSED STATE
END
N
S2808
IS INPUT "DOWN"?
Y
S2810
VALUE OF cur_focus INCREASED BY 1
N
S2812
IS INPUT "CONFIRM"?
Y
S2814
INSTRUCTION READ FROM THE HANDLER DEFINITION INFORMATION
N
END
N
S2816
goto_content?
Y
S2818
index READ
S2820
LINK DESTINATION SET CORRESPONDING TO INDEX
S2822
CONTENT CHANGE FLAG SET AT 1
N
S2824
goto_entry?
Y
ENTRY CONTENT SET AT new_original_network_id, ・・・・ new_NE_id BY REFERRING TO PMT
S2826
N
END

Fig. 81

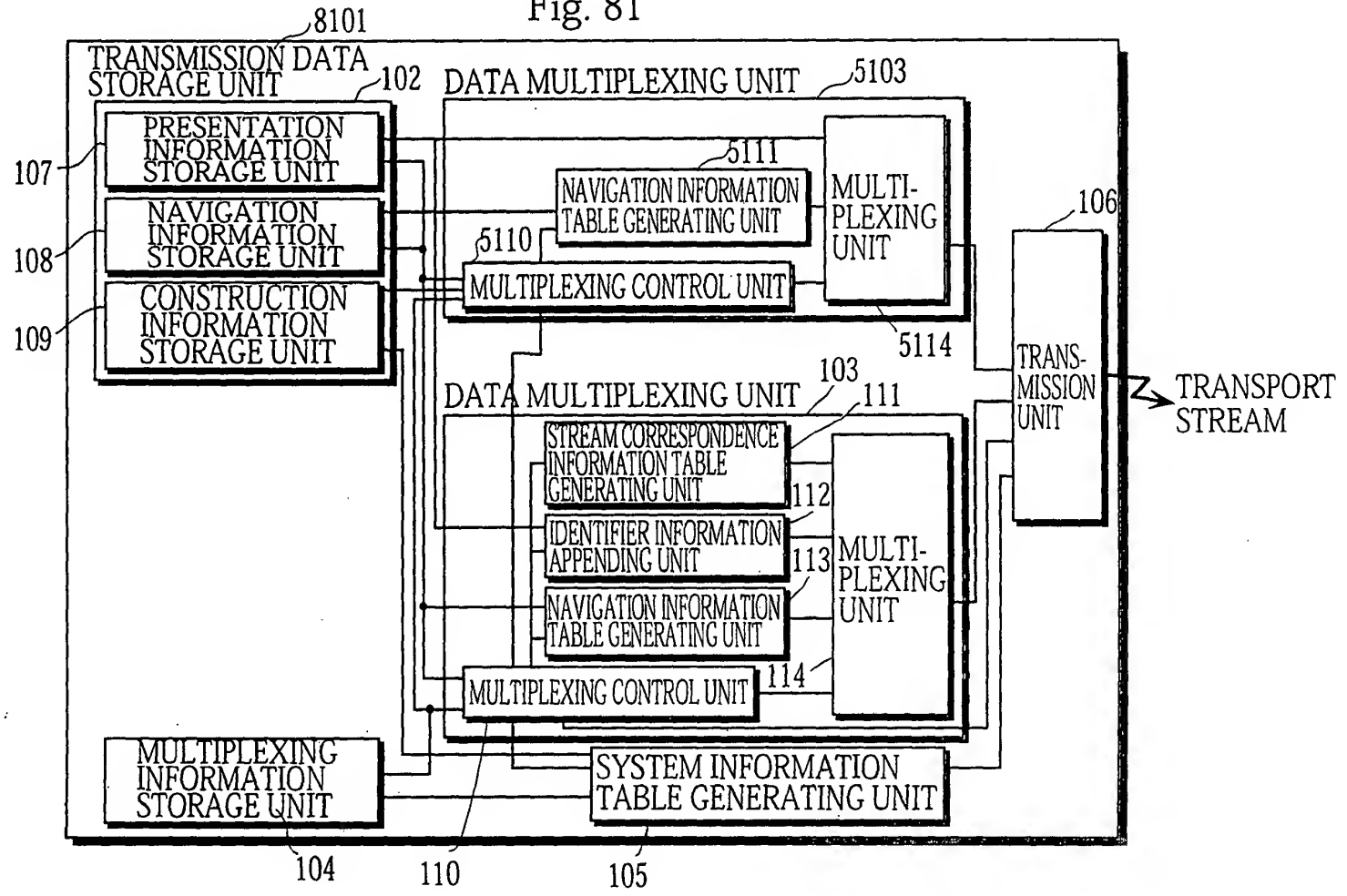

8101
TRANSMISSION DATA STORAGE UNIT
102
DATA MULTIPLEXING UNIT
5103
PRESENTATION INFORMATION STORAGE UNIT
107
NAVIGATION INFORMATION STORAGE UNIT
108
CONSTRUCTION INFORMATION STORAGE UNIT
109
5111
NAVIGATION INFORMATION TABLE GENERATING UNIT
MULTI-PLEXING UNIT
5110
MULTIPLEXING CONTROL UNIT
5114
106
TRANS-MISSION UNIT
TRANSPORT STREAM
DATA MULTIPLEXING UNIT
103
111
STREAM CORRESPONDENCE INFORMATION TABLE GENERATING UNIT
112
IDENTIFIER INFORMATION APPENDING UNIT
113
NAVIGATION INFORMATION TABLE GENERATING UNIT
MULTI-PLEXING UNIT
MULTIPLEXING CONTROL UNIT
114
MULTIPLEXING INFORMATION STORAGE UNIT
SYSTEM INFORMATION TABLE GENERATING UNIT
104
110
105

Fig. 82A

8201

CONTENT NUMBER	IMAGE DATA	AUDIO DATA	NAVIGATION INFORMATION
100	Video100.m2v	Audio100.m2v	Navi100-0.nif, Navi100-1.nif, Navi100-2.nif,···
101	Video100.m2v	Audio100.m2v	Navi101-0.nif, Navi101-1.nif, Navi101-2.nif,···
102	Video100.m2v	Audio100.m2v	Navi102-0.nif, Navi102-1.nif, Navi102-2.nif,···
103	Video100.m2v	Audio100.m2v	Navi103-0.nif, Navi103-1.nif, Navi103-2.nif,···
104	Video104.m2v	Audio104.m2v	Navi104-0.nif, Navi104-1.nif, Navi104-2.nif,···
105	Video104.m2v	Audio104.m2v	Navi105-0.nif, Navi105-1.nif, Navi105-2.nif,···
106	Video106.m2v	Audio106.m2v	Navi106-0.nif, Navi106-1.nif, Navi106-2.nif,···
⋮	⋮	⋮	⋮

Fig. 82B

8301

CONTENT NUMBER	IMAGE DATA	AUDIO DATA	NAVIGATION INFORMATION
0	still0.m2v	—	navi0.nif
1	still1.m2v	—	navi1.nif
2	still2.m2v	—	navi2.nif
3	still3.m2v	—	navi3.nif
4	still4.m2v	—	navi4.nif
5	still5.m2v	—	navi5.nif
6	still6.m2v	—	navi6.nif
⋮	⋮	⋮	⋮

Fig. 83

Navi5.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	400	200	3	9	10
1	Button	400	300	4	11	12
2	Button	450	400	5	13	14

Handler Definition Table :

Handler Index	Bytecode
3	goto_content(Hyperlink index 6)
4	goto_content(Hyperlink index 7)
5	goto_content(Hyperlink index 8)

Hyperlink Table :

Hyperlink Index	Content number
6	1
7	2
8	100

Bitmap Table :

Bitmap Index	Bitmap Data
9	TOKYO
10	TOKYO
11	OSAKA
12	OSAKA
13	RETURN
14	RETURN

Fig. 84A

(WORLD TRAVEL GUIDE) Video 100.m2v

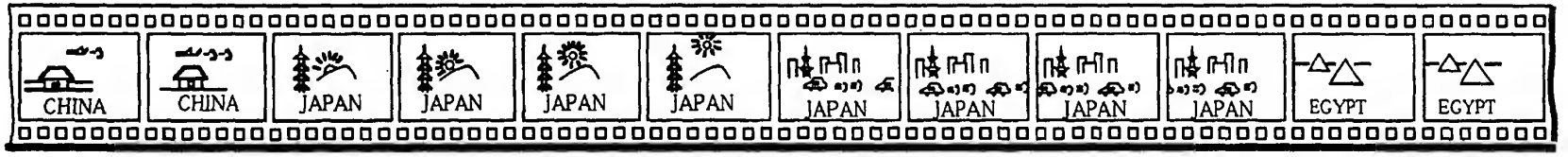


Fig. 84B

(JAPAN TRAVEL GUIDE) Video 104.m2v

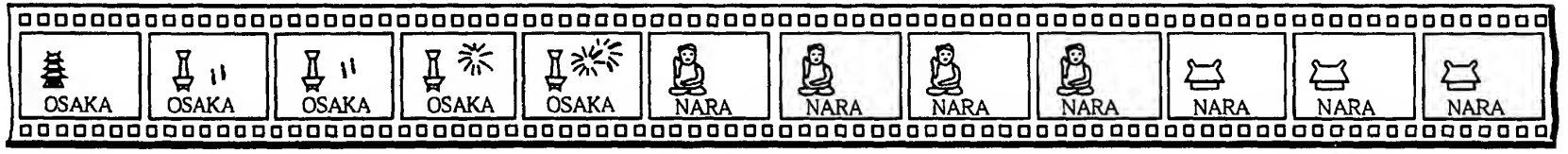


Fig. 84C

(CHINA TRAVEL GUIDE) Video 106.m2v

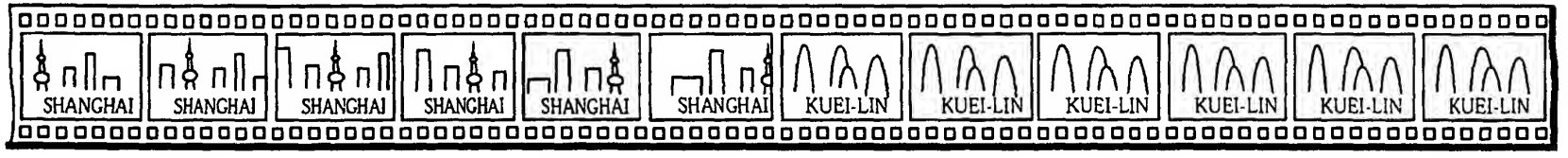
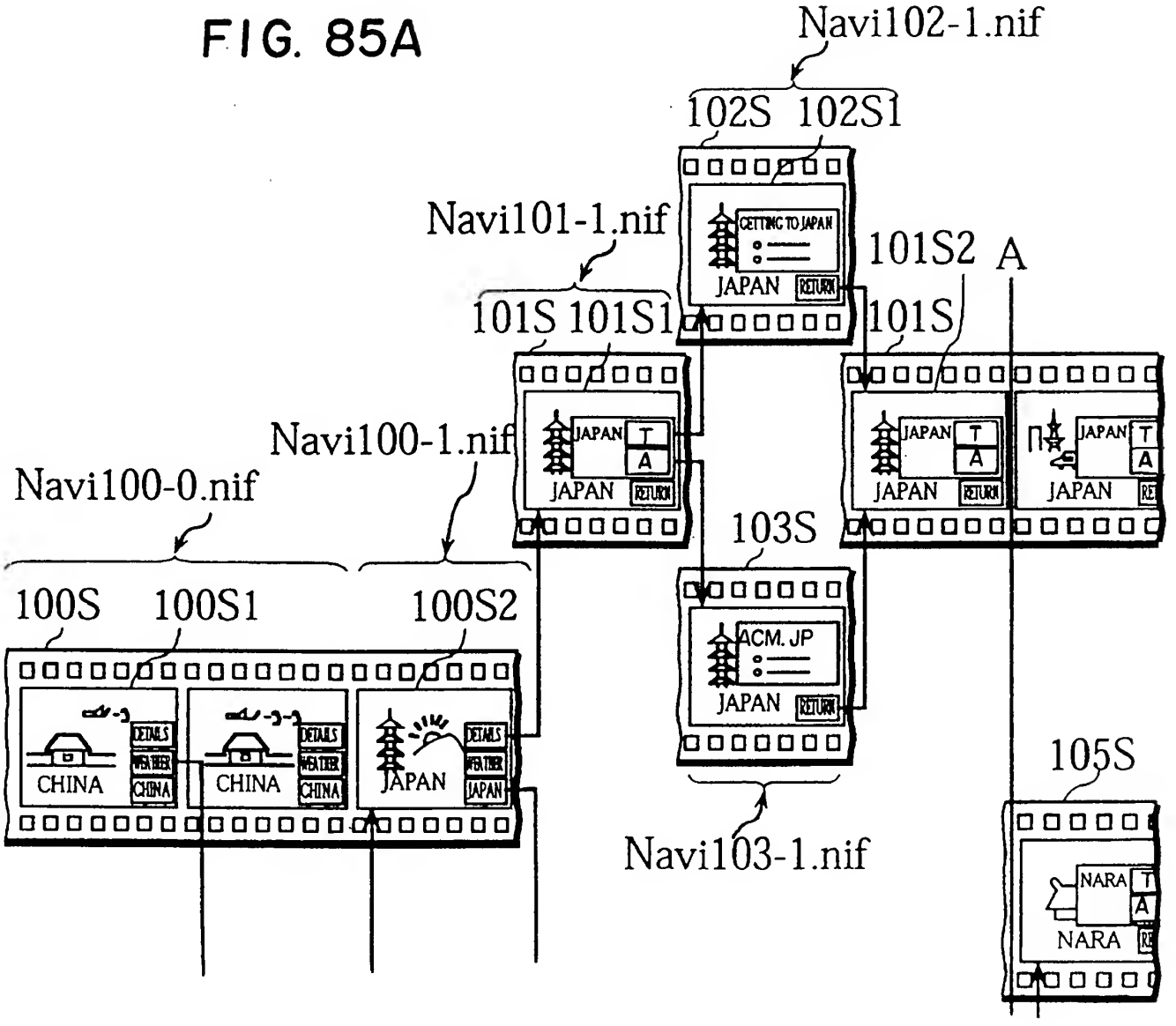


FIG. 85A


Navi102-1.nif
102S
102S1
Navi101-1.nif
101S
101S1
101S2
A
Navi100-1.nif
Navi100-0.nif
100S
100S1
100S2
103S
105S
GETTING TO JAPAN
JAPAN
RETURN
ACM. JP
CHINA
DETAILS
WEATHER
NARA
Navi103-1.nif

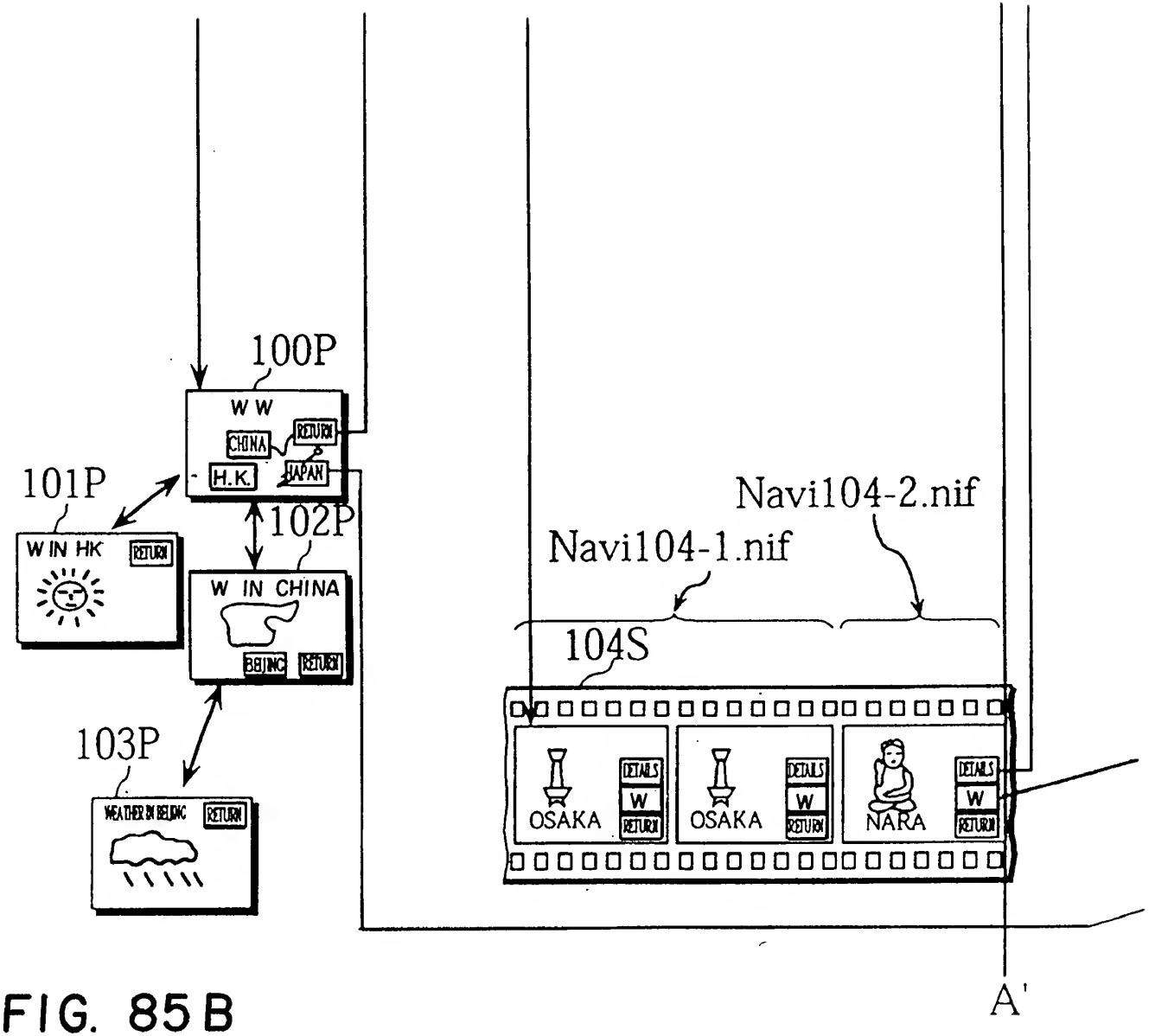
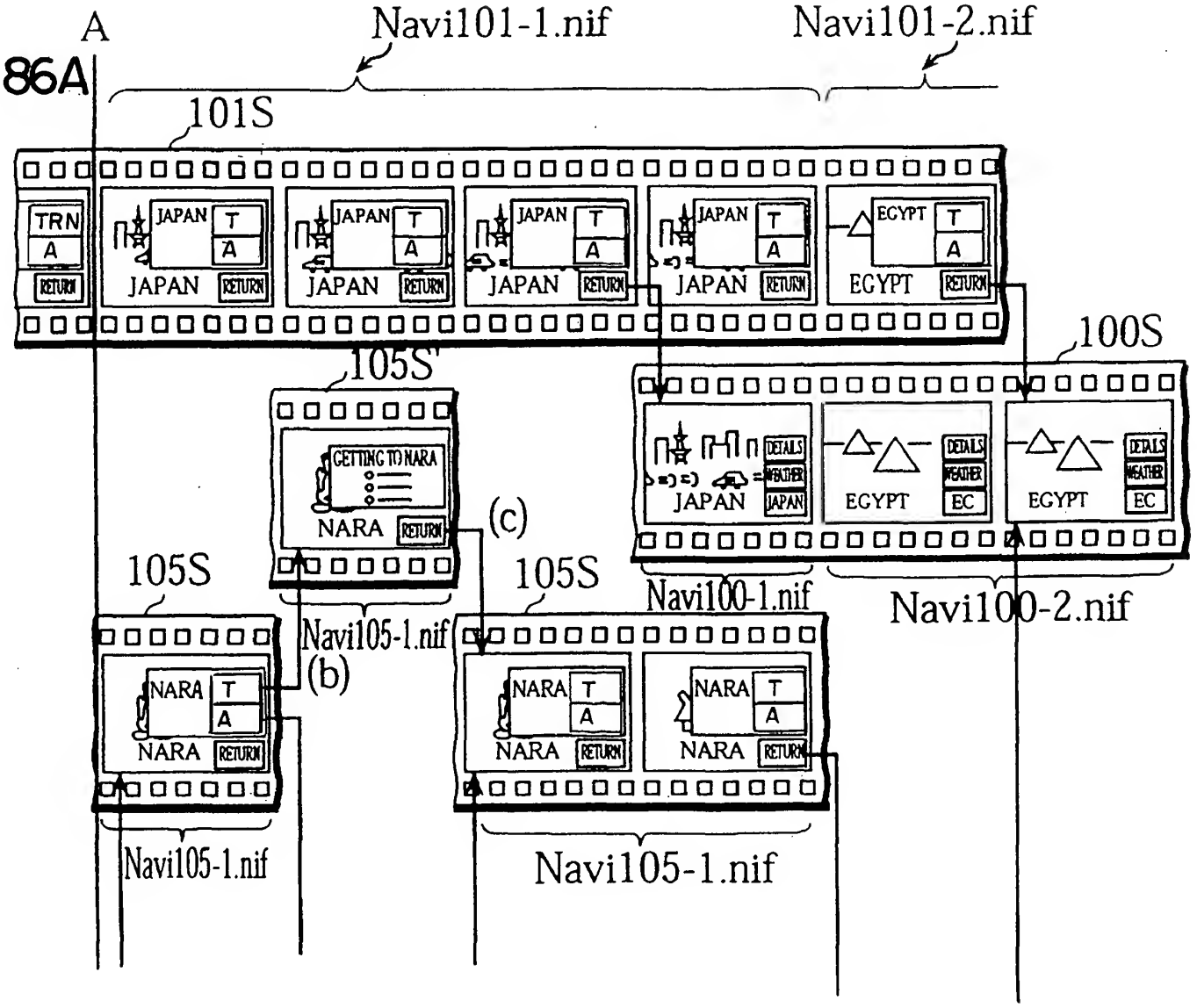

100P
W W
CHINA
RETURN
H.K.
JAPAN
101P
102P
W IN HK
RETURN
W IN CHINA
BEIJING
RETURN
103P
WEATHER IN BEIJING
RETURN
Navi104-2.nif
Navi104-1.nif
104S
OSAKA
DETAILS
W
RETURN
OSAKA
DETAILS
W
RETURN
NARA
DETAILS
W
RETURN
A'

FIG. 85B

FIG. 86A


A
Navi101-1.nif
Navi101-2.nif
101S
TRN
A
RETURN
JAPAN
T
A
JAPAN
RETURN
EGYPT
105S'
GETTING TO NARA
NARA
(c)
100S
DETAILS
WEATHER
EC
105S
105S
Navi100-1.nif
Navi100-2.nif
Navi105-1.nif
(b)
Navi105-1.nif
Navi105-1.nif

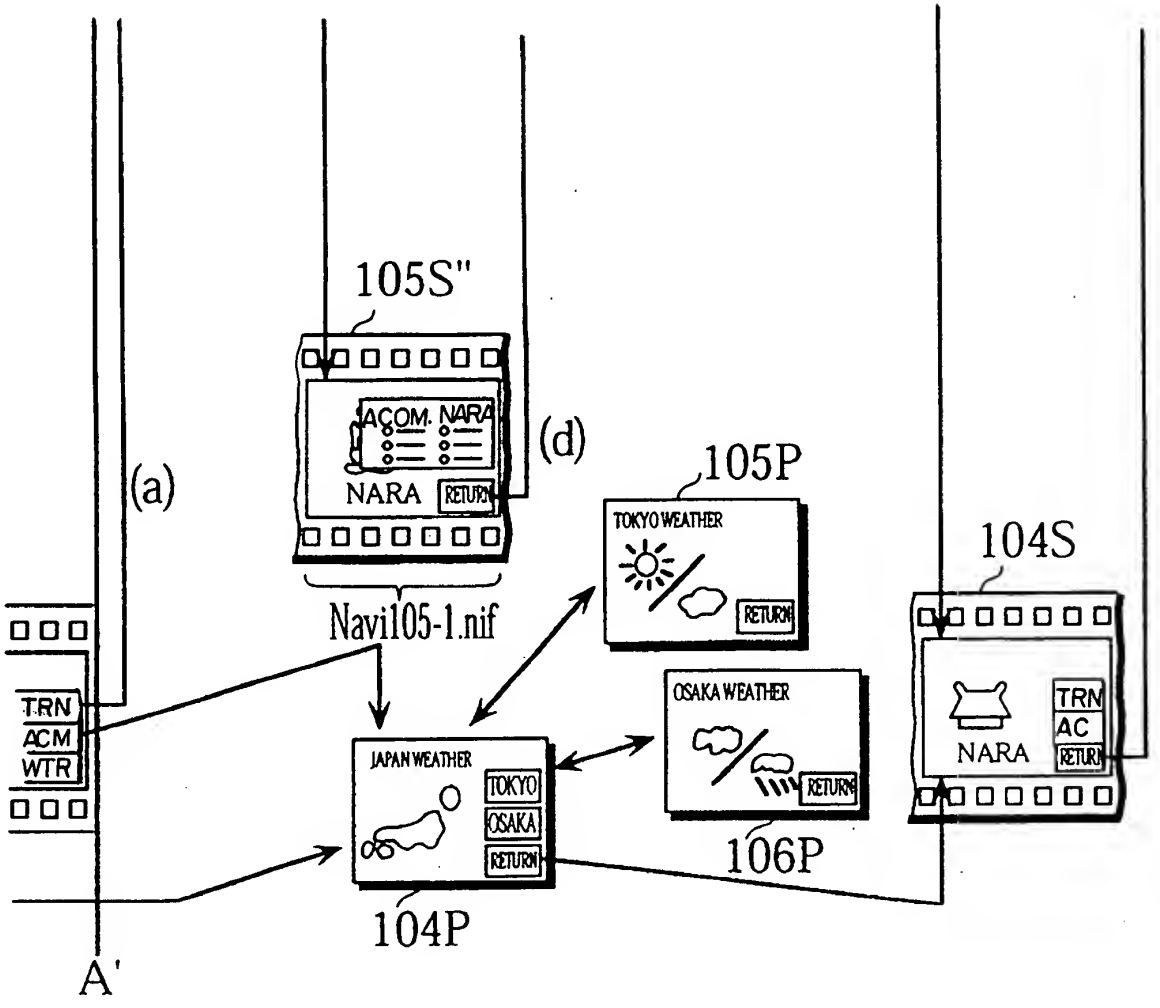

105S"
ACOM. NARA
NARA
RETURN
(d)
(a)
105P
TOKYO WEATHER
RETURN
Navi105-1.nif
104S
TRN
ACM
WTR
OSAKA WEATHER
RETURN
TRN
AC
NARA
RETURN
JAPAN WEATHER
TOKYO
OSAKA
RETURN
106P
104P
A'

FIG. 86B

Fig. 87

Navi100-0.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	150	0	0	1
1	Button	500	250	1	2	3
2	Button	500	350	2	4	5

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	Content Number
0	101
1	10
2	106

Bitmap Table :

Bitmap Index	Bitmap Data
0	Details
1	Details
2	Weather
3	Weather
4	China
5	China

Time Information Table :

start_time	1
end_time	300

Fig. 88

Navi100-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	Focused Bitmap
0	Button	500	150	0	0	1
1	Button	500	250	1	2	3
2	Button	500	350	2	4	5

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	Content Number
0	101
1	10
2	104

Bitmap Table :

Bitmap Index	Bitmap Data
0	Details
1	Details
2	Weather
3	Weather
4	Japan
5	Japan

Time Information Table :

start_time	301
end_time	600

Fig. 89

Navi100-2.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	150	0	0	1
1	Button	500	250	1	2	3
2	Button	500	350	2	4	5

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	Content Number
0	101
1	10
2	120

Bitmap Table :

Bitmap Index	Bitmap Data
0	Details
1	Details
2	Weather
3	Weather
4	Egypt
5	Egypt

Time Information Table :

start_time	601
end_time	900

Fig. 90

Navi101-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	120	0	0	1
1	Button	500	220	1	2	3
2	Button	500	350	2	4	5
3	Picture	200	100		6	

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	Content Number
0	102
1	103
2	100

Time Information Table :

start_time	301
end_time	600

Bitmap Table :

Bitmap Index	Bitmap Data
0	TRANSPORT
1	TRANSPORT
2	ACCOMMODATION
3	ACCOMMODATION
4	RETURN
5	RETURN
6	JAPAN....

Fig. 91

Navi101-2.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	120	0	0	1
1	Button	500	220	1	2	3
2	Button	500	350	2	4	5
3	Picture	200	100		6	

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	Content Number
0	102
1	103
2	100

Time Information Table :

start_time	601
end_time	900

Bitmap Table :

Bitmap Index	Bitmap Data
0	TRANSPORT
1	TRANSPORT
2	ACCOMMODATION
3	ACCOMMODATION
4	RETURN
5	RETURN
6	EGYPT....

Fig. 92

Navi102-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	350	0	0	1
1	Picture	200	100	—	2	—

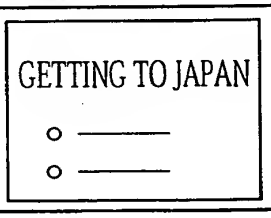
Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)

Hyperlink Table :

Hyperlink Index	Content Number
0	101

Bitmap Table :

Bitmap Index	Bitmap Data
0	
1	
2	

Time Information Table :

start_time	301
end_time	600

Fig. 93

Navi103-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	350	0	0	1
1	Picture	200	100	—	2	—

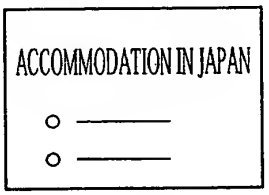
Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)

Hyperlink Table :

Hyperlink Index	Content Number
0	101

Bitmap Table :

Bitmap Index	Bitmap Data
0	
1	
2	

Time Information Table :

start_time	301
end_time	600

Fig. 94

Navi104-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	150	0	0	1
1	Button	500	250	1	2	3
2	Button	500	350	2	4	5

Handler Definition Table :

Handler Index	Script
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	Content Number
0	105
1	5
2	100

Bitmap Table :

Bitmap Index	Bitmap Data
0	DETAILS
1	DETAILS
2	WEATHER
3	WEATHER
4	RETURN
5	RETURN

Time Information Table :

start_time	401
end_time	900

Fig. 95

Navi105-1.nif

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	Focused Bitmap	visibility
0	Button	500	120	0	0	1	1
1	Button	500	220	1	2	3	1
2	Button	500	350	2	4	5	1
3	Picture	100	200	—	6	—	1
4	Picture	100	200	—	7	—	0
5	Button	500	350	3	4	5	0
6	Picture	100	200	—	8	—	0
7	Button	500	350	4	4	5	0

Handler Definition Table :

Handler Index	Script

0	for(i=0, i<4, i++){
	hide_object(object index i)
	}
	show_object(object index 4)
	show_object(object index 5)

1	for(i=0, i<4, i++){
	hide_object(object index i)
	}
	show_object(object index 6)
	show_object(object index 7)

2	goto_content(hyperlink index 0)

3	hide_object(object index 4)
	hide_object(object index 5)
	for(i=0, i<4, i++){
	show object(object index i)
	}

4	hide_object(object index 6)
	hide_object(object index 7)
	for(i=0, i<4, i++){
	show object(object index i)
	}

Hyperlink Table :

Hyperlink Index	Content Number
0	104

Bitmap Table :

Bitmap Index	Bitmap Data
0	TRANSPORTATION
1	TRANSPORTATION
2	ACCOMMODATION
3	ACCOMMODATION
4	RETURN
5	RETURN
6	NARA. . . .
7	GETTING TO NARA
8	ACCOMMODATION IN NARA

Time Information Table :

start_time	401
end_time	900

NVT(104.1)

Fig. 96

Object Definition Table :

Object Index	type	X	Y	Handler	Normal Bitmap	FocusedBitmap
0	Button	500	150	0	0	1
1	Button	500	250	1	2	3
2	Button	500	350	2	4	5

Handler Definition Table :

Handler Index	Bytecode
0	goto_content(Hyperlink index 0)
1	goto_content(Hyperlink index 1)
2	goto_content(Hyperlink index 2)

Hyperlink Table :

Hyperlink Index	orig_nw_id	ts_id	VE_service_id	VE_event_id	VE_comp_tag	VE_id	AE_service_id	AE_event_id	AE_comp_tag	AE_id	NE_service_id	NE_event_id	NE_id
0	—	—	—	—	0xf5	—	—	—	0xf5	—	—	—	0x0069
1	—	—	—	—	—	0x0005	—	—	—	—	—	—	0x0005
2	—	—	—	—	0xf0	—	—	—	0xf0	—	—	—	0x0064

Bitmap Table :

Bitmap Index	Bitmap Data
0	DETAILS
1	DETAILS
2	WEATHER
3	WEATHER
4	RETURN
5	RETURN

Time Information Table :

start_time	401
end_time	900

FIG. 97A

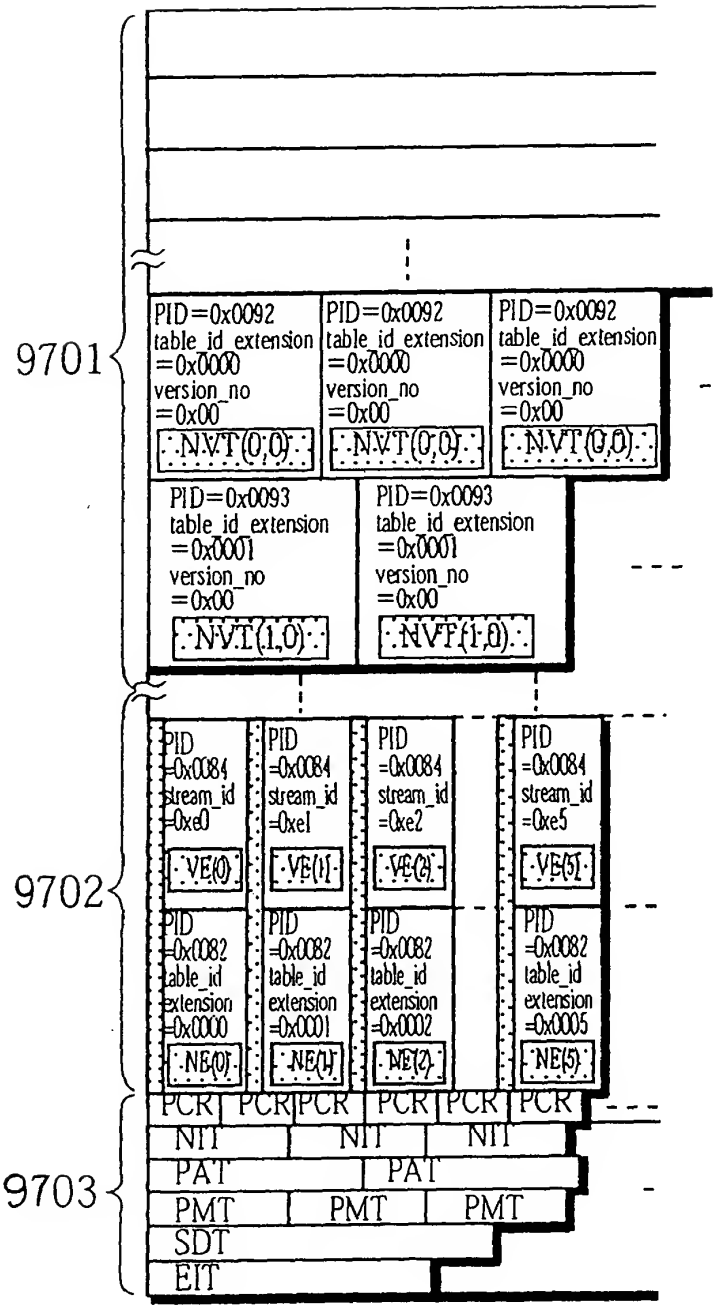

9701
PID=0x0092
table_id_extension
=0x0000
version_no
=0x00
NVT(0,0)
PID=0x0092
table_id_extension
=0x0000
version_no
=0x00
NVT(0,0)
PID=0x0092
table_id_extension
=0x0000
version_no
=0x00
NVT(0,0)
PID=0x0093
table_id_extension
=0x0001
version_no
=0x00
NVT(1,0)
PID=0x0093
table_id_extension
=0x0001
version_no
=0x00
NVT(1,0)
9702
PID
=0x0084
stream_id
=0xe0
VE(0)
PID
=0x0084
stream_id
=0xe1
VE(1)
PID
=0x0084
stream_id
=0xe2
VE(2)
PID
=0x0084
stream_id
=0xe5
VE(5)
PID
=0x0082
table_id
extension
=0x0000
NE(0)
PID
=0x0082
table_id
extension
=0x0001
NE(1)
PID
=0x0082
table_id
extension
=0x0002
NE(2)
PID
=0x0082
table_id
extension
=0x0005
NE(5)
9703
PCR
PCR
PCR
PCR
PCR
PCR
NIT
NIT
NIT
PAT
PAT
PMT
PMT
PMT
SDT
EIT

FIG. 97B

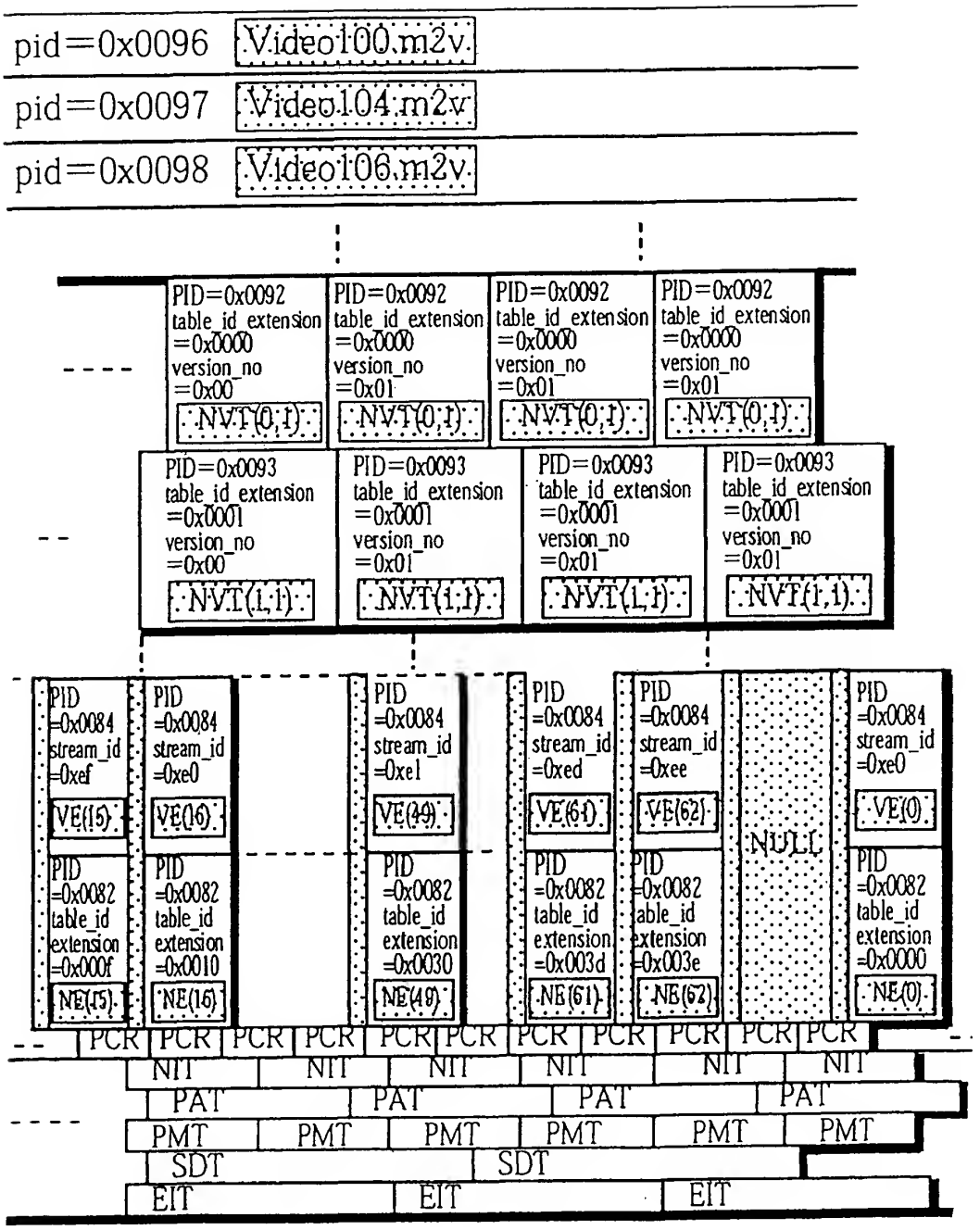
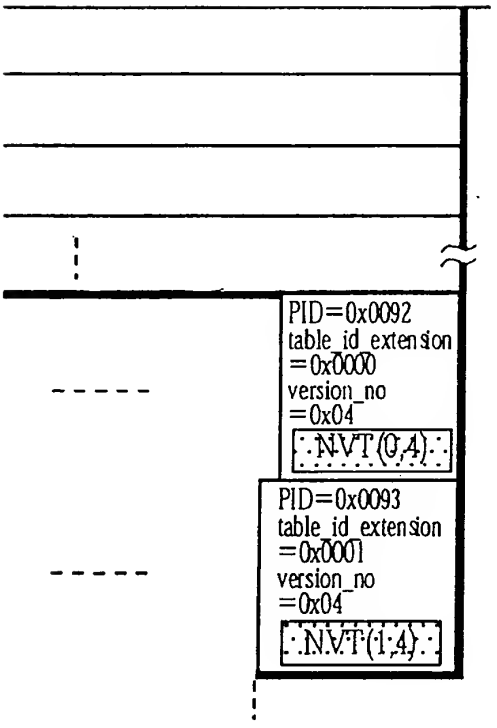

pid=0x0096
Video100.m2v
pid=0x0097
Video104.m2v
pid=0x0098
Video106.m2v
PID=0x0092 table_id_extension =0x0000 version_no =0x00 NVT(0,1)
PID=0x0092 table_id_extension =0x0000 version_no =0x01 NVT(0,1)
PID=0x0092 table_id_extension =0x0000 version_no =0x01 NVT(0,1)
PID=0x0092 table_id_extension =0x0000 version_no =0x01 NVT(0,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x00 NVT(1,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x01 NVT(1,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x01 NVT(1,1)
PID=0x0093 table_id_extension =0x0001 version_no =0x01 NVT(1,1)
PID =0x0084 stream_id =0xef VE(15)
PID =0x0084 stream_id =0xe0 VE(16)
PID =0x0084 stream_id =0xe1 VE(49)
PID =0x0084 stream_id =0xed VE(61)
PID =0x0084 stream_id =0xee VE(62)
NULL
PID =0x0084 stream_id =0xe0 VE(0)
PID =0x0082 table_id extension =0x000f NE(15)
PID =0x0082 table_id extension =0x0010 NE(16)
PID =0x0082 table_id extension =0x0030 NE(49)
PID =0x0082 table_id extension =0x003d NE(61)
PID =0x0082 table_id extension =0x003e NE(62)
PID =0x0082 table_id extension =0x0000 NE(0)
PCR
NIT
PAT
PMT
SDT
EIT

FIG. 97C


PID=0x0092
table_id_extension
=0x0000
version_no
=0x04
NVT(0,4)
PID=0x0093
table_id_extension
=0x0001
version_no
=0x04
NVT(1,4)

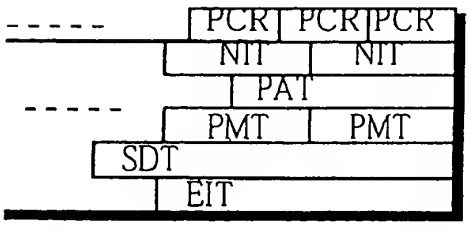

PCR
PCR
PCR
NIT
NIT
PAT
PMT
PMT
SDT
EIT

Fig. 98

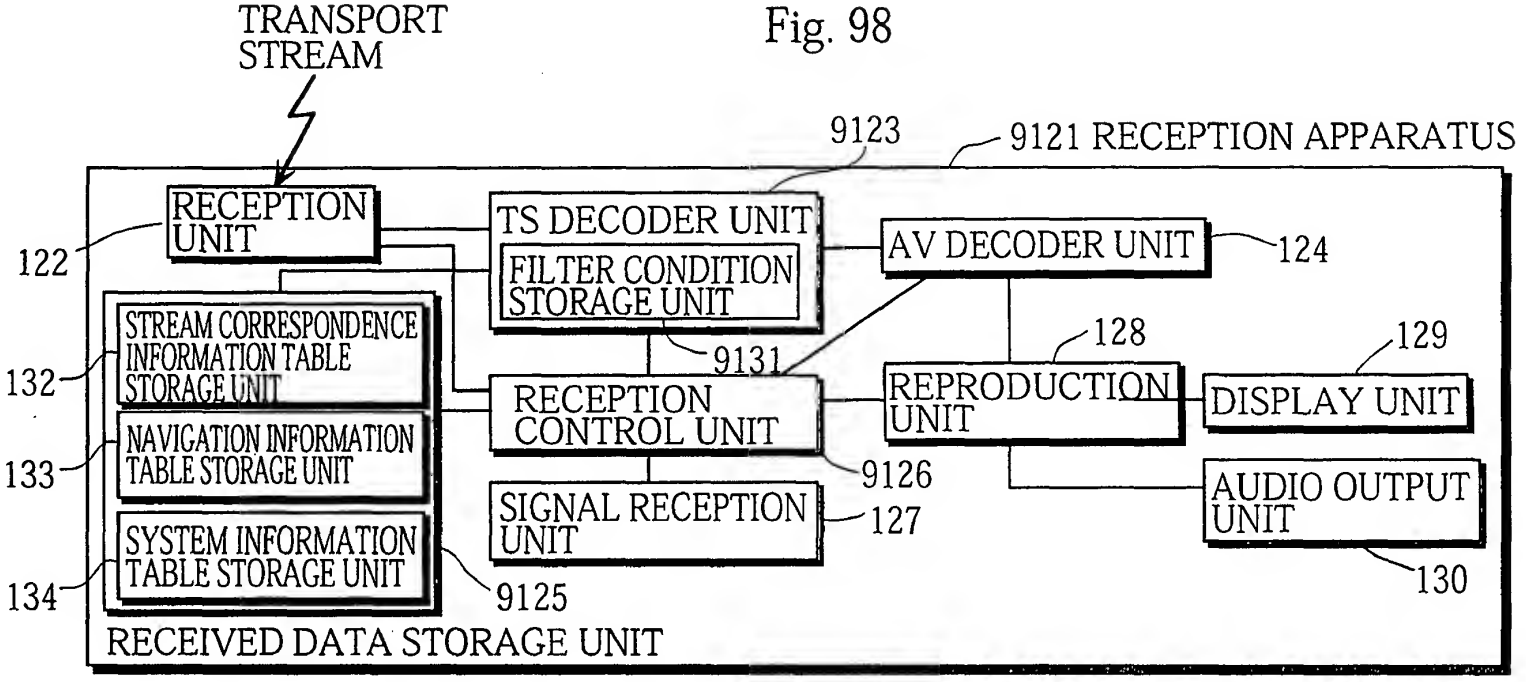

TRANSPORT STREAM
9123
9121 RECEPTION APPARATUS
RECEPTION UNIT
122
TS DECODER UNIT
FILTER CONDITION STORAGE UNIT
AV DECODER UNIT
124
STREAM CORRESPONDENCE INFORMATION TABLE STORAGE UNIT
132
NAVIGATION INFORMATION TABLE STORAGE UNIT
133
SYSTEM INFORMATION TABLE STORAGE UNIT
134
9125
9131
RECEPTION CONTROL UNIT
9126
SIGNAL RECEPTION UNIT
127
128
REPRODUCTION UNIT
129
DISPLAY UNIT
AUDIO OUTPUT UNIT
130
RECEIVED DATA STORAGE UNIT

Fig. 99

2202 FILTER IDENTIFICATION NUMBER	2203 START/STOP	2204 PID	2205 stream_id	2206 table_id_extension	8804 version_no	7805 OUTPUT DESTINATION
0						AV DECODER UNIT
1						AV DECODER UNIT
2						
3						NAVIGATION INFORMATION TABLE STORAGE UNIT

Fig. 100

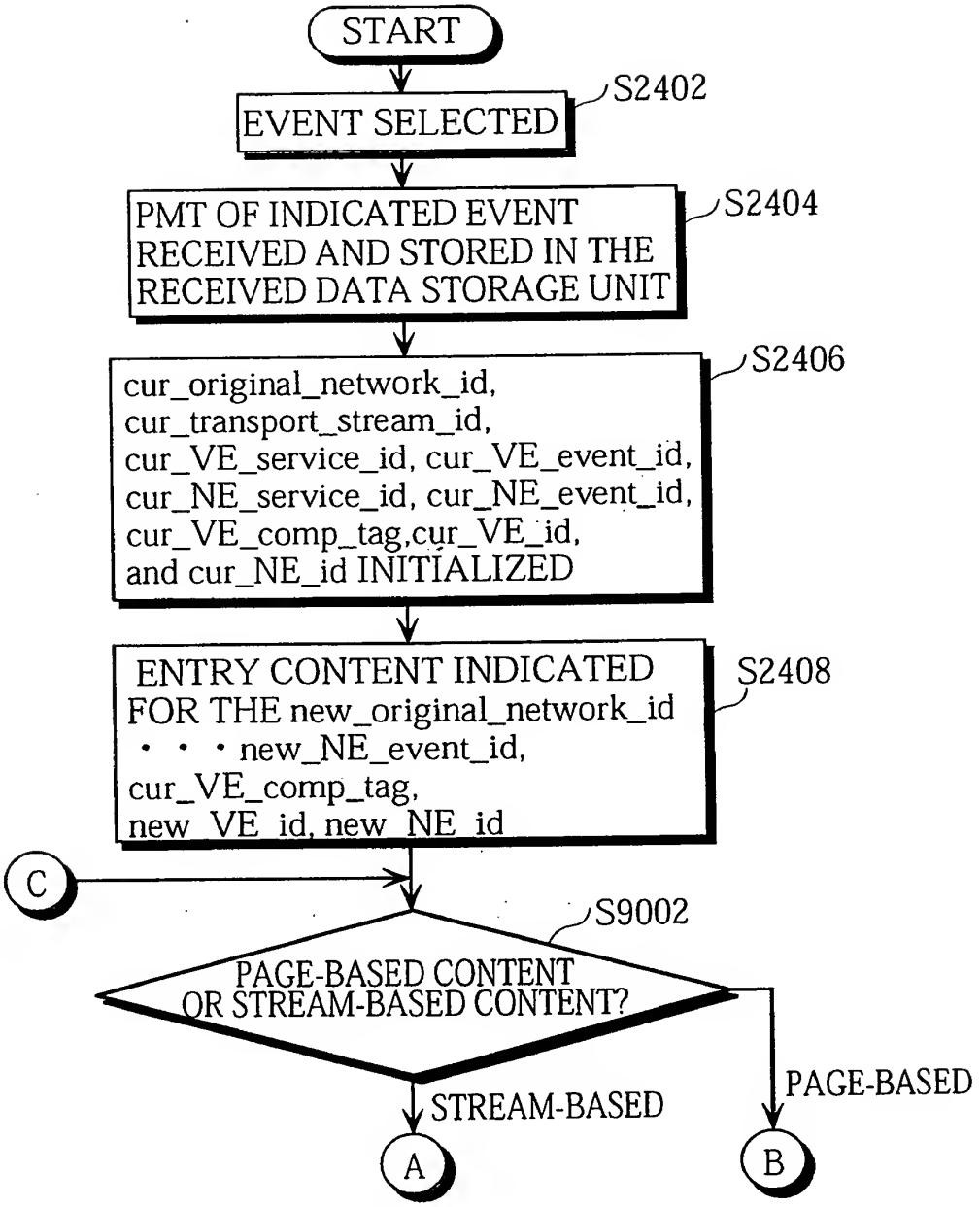
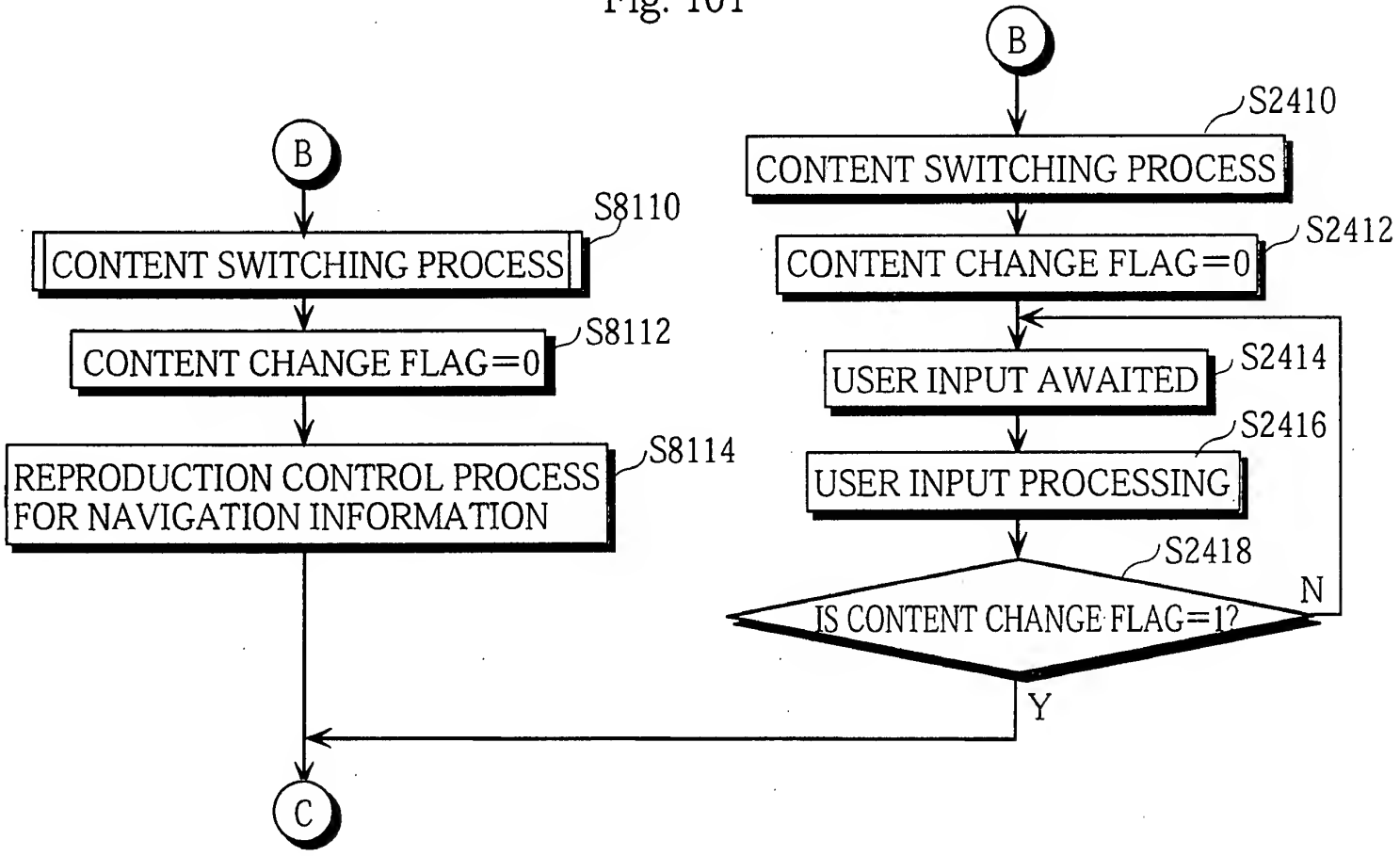

START
EVENT SELECTED
S2402
PMT OF INDICATED EVENT RECEIVED AND STORED IN THE RECEIVED DATA STORAGE UNIT
S2404
cur_original_network_id, cur_transport_stream_id, cur_VE_service_id, cur_VE_event_id, cur_NE_service_id, cur_NE_event_id, cur_VE_comp_tag,cur_VE_id, and cur_NE_id INITIALIZED
S2406
ENTRY CONTENT INDICATED FOR THE new_original_network_id ・・・new_NE_event_id, cur_VE_comp_tag, new_VE_id, new_NE_id
S2408
C
S9002
PAGE-BASED CONTENT OR STREAM-BASED CONTENT?
STREAM-BASED
PAGE-BASED
A
B

Fig. 101


B
S8110
CONTENT SWITCHING PROCESS
S8112
CONTENT CHANGE FLAG=0
S8114
REPRODUCTION CONTROL PROCESS FOR NAVIGATION INFORMATION
C
B
S2410
CONTENT SWITCHING PROCESS
S2412
CONTENT CHANGE FLAG=0
S2414
USER INPUT AWAITED
S2416
USER INPUT PROCESSING
S2418
IS CONTENT CHANGE FLAG=1?
N
Y